Partners in Science 2025

Academic Studies using WorldViz Technology

April 2023 - May 2025

worldviz

where virtual becomes reality™

Introduction

WorldViz is pleased to present its seventh and latest Partners in Science Report: It covers research studies featured in publications including Nature and other prominent journals between 2023 and 2025 that utilized a WorldViz VR solution. Our combined WorldViz Partners in Science reports since 2015 now highlight over **730 published studies**, giving you access to a unique collection of virtual reality studies by top researchers across many disciplines.

We are excited to see that many new universities from all over the world have completed meaningful research studies using WorldViz VR software technologies. They include Technical University of Munich, University of Toronto, King's College London, Seoul National University, Massachusetts General Hospital and Harvard Medical School, University of Oxford, Stanford University, Johns Hopkins University, ETH Zurich, Max Planck Society, Max Planck Institute for Psycholinguistics, and many more.

Virtual reality is a powerful research tool allowing for unprecedented experimental control within fully immersive stimuli.

This report is organized by scientific fields: Computer Science, AEC, Neuroscience, Physiology, Psychology, Kinesiology.

Links to the published journal articles for each study along with the authors are provided below. As some of the papers are hosted on SpringerLink and IEEE, you'll need to use your university license to access them.

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Architecture/Engineering/Construction

University of Campania Luigi Vanvitelli

Department of Architecture and Industrial Design

Universidad de Alcalá

Escuela de Arquitectura

Researcher: Michelangelo Scorpio, Martina Gargiulo, Chías Navarro, Yorgos Spanodimitriou, Parinaz Sabet, Massimiliano Masullo, Giovanni Ciampi
Title of Paper/Research: A Review of Subjective Assessments in Virtual Reality for Lighting Research
Journal: Sustainability 2023
Date: May, 2023

Oticon Medical, Research & Technology

Imperial College London

Dyson School of Design Engineering

Researcher: Rasmus Lundby Pedersen, Lorenzo Picinali, Nynne Kajs, François Patou
Title of Paper/Research: Virtual-Reality-Based Research in Hearing Science: A Platforming Approach
Journal: AES E-Library
Date: June, 2023

Hanyang University

Depaprtment of Nuclear Engineering

Proton Therapy Center, National Cancer Center

Sungkyunkwan University School of Medicine

Department of Radiation Oncology,
Samsung Medical Center

Researcher: Youngmo Ku, Sehoon Choi, Jaeho Cho, Sehyun Jang, Jong Hwi Jeong, Sung Hun Kim, Sungkoo Cho, Chan Hyeong Kim
Title of Paper/Research: Tackling range uncertainty in proton therapy: Development and evaluation of a new multi-slit prompt-gamma camera (MSPGC) system
Journal: Nuclear Engineering and Technology, Volume 55, Issue 9
Date: July, 2023

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Massachusetts Institute of Technology
GE Global Research
Department of Transportation
Federal Railroad Administration
Office of Railroad Policy and Development
Office of Research, Development and Technology

Researcher: Andrew M. Liu, Charles M. Oman, Allison Zhang, Amelia Gagnon, Kirk H, Mathews, James Brooks, Bradford Miller, Saikat Ray Majumder, Sarah Felix, Kaivalya Baksh
Title of Paper/Research: Augmented Reality for Railroad Operations Using Head-up Displays
Journal: United States. Department of Transportation. Federal Railroad Administration
Date: August, 2023

* * *

University of Oklahoma

Researcher: Ricardo Palma Fraga, Ziho Kang, Clare M. Axthelm
Title of Paper/Research: Effect of Machine Learning Cross-validation Algorithms Considering Human Participants and Time-series: Application on Biometric Data Obtained from a Virtual Reality Experiment
Journal: Proceedings of the Human Factors and Ergonomics Society Annual Meeting, Volume 67 Issue 1
Date: October, 2023

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Kent State University
Montgomery College
University of North Texas

Researcher: Chris Lenart, Pegah Ahadian, Yuxin Yang, Simon Suo, Ashton Corsello, Karl Kosko, Qiang Guan
Title of Paper/Research: Gaze Analysis System for Immersive 360 Video for Preservice Teacher Education
Journal: MM ,23: Proceedings of the 31st ACM International Conference on Multimedia
Date: October, 2023

Architecture/Engineering/Construction

University of Rhode Island

Interdisciplinary Neuroscience Program

Department of Kinesiology

Department of Electrical, Computer, and Biomedical Engineering

Researcher: Lohith Chatragadda, Aiden Fletcher, Matthew J. Delmonico, Kunal Mankodiya, Dhaval Solanki
Title of Paper/Research: VRGrip: Developing a Grip Strength Training Platform Integrating a Wireless E-Textile Forearm Band with an Adaptive 3D VR Game Environment
Journal: 2023 IEEE MIT Undergraduate Research Technology Conference (URTC)
Date: October, 2023

Worcester Polytechnic Institute

Robotics Engineering

Biomedical Engineering

Researcher: Keshav Bimbraw, Jack Rothenberg, Haichong Zhang
Title of Paper/Research: Leveraging Ultrasound Sensing for Virtual Object Manipulation in Immersive Environments
Journal: 2023 IEEE 19th International Conference on Body Sensor Networks (BSN)
Date: October, 2023

Jadavpur University

Department of Electrical Engineering

Researcher: Sounak Dey, Suddhasatwa Chakraborty
Title of Paper/Research: A Virtual Reality Environment for Behavioural and Cognitive Experiments in Illumination Science
Journal: 2023 IEEE 3rd Applied Signal Processing Conference (ASPCON)
Date: November, 2023

University of Zaragoza

IDERGO (Research and Development in Ergonomics), I3A (Instituto de Investigación en Ingeniería de Aragón)

Department of Design and Manufacturing Engineering

Department of Biomedical Engineering

Researcher: Javier Rodríguez, Ana C. Royo, Luis Padrón, Manuel Pérez-Soto, José J. Marín
Title of Paper/Research: KeepRunning: A MoCap-Based Rapid Test to Prevent Musculoskeletal Running Injuries
Journal: Sensor Technologies for Gait Analysis: 2nd Edition
Date: November, 2023

Israel Institute of Technology
Netanya Academic College
Massachusetts Institute of Technology

Researcher: Dov Dori, Ahmad Jbara, Yongkai E. Yang, Andrew M. Liu, Charles M. Oman
Title of Paper/Research: Object-Process Methodology as an Alternative to Human Factors Task Analysis
Journal: Human Factors: The Journal of the Human Factors and Ergonomics Society
Date: November, 2023

Tianjin University
University of Calgary
University of Manitoba
Shantou University

Researcher: Peihua Gu, Deyi Xue, Qingjin Peng, Jian Zhang
Title of Paper/Research: Tool and Techniques for Adaptable Design
Journal: Adaptable Design, Methods and Applications
Date: December, 2023

University of Pretoria

Department of Mining Engineering

Researcher: S.M. Buthelezi, J. Maritz, K. de Beer
Title of Paper/Research: The status of extended reality technology in South Africa's mining industry
Journal: Journal of the Southern African Institute of Mining and Metallurgy
Date: March, 2024

Architecture/Engineering/Construction

RWTH Aachen University

Visual Computing Institute

Institute for Hearing Technology and Acoustics

Work and Engineering Psychology

Researcher: Jonathan Ehret, Andrea Bönsch, Janina Fels, Sabine J. Schlittmeier, Torsten W. Kuhlen

Title of Paper/Research: StudyFramework: Comfortably Setting up and Conducting Factorial-Design Studies Using the Unreal Engine

Journal: 2024 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)

Date: March, 2024

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Indian Space Research Organization

Researcher: Jai G. Singla, Kshitija Suresh Shirke

Title of Paper/Research: Virtual reality, augmented reality and its potential use case in space engineering

Journal: Current Science (00113891), 2024, Vol 127, Issue 2

Date: July, 2024

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University of Florida

School of Construction Management

Researcher: Qipeng Liu,Rui Liu

Title of Paper/Research: Virtual reality for indoor emergency evacuation studies: Design, development, and implementation review

Journal: Safety Science Volume 181, January 2025, 106678

Date: September, 2024

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National Taipei University of Technology
Department of Industrial Design

Researcher: Yo-Wen Liang
Title of Paper/Research: Exploring the Usability of Virtual Reality in Factory Equipment Practical Courses for Industrial Design Students
Journal: 2024 International Conference on Electrical, Computer and Energy Technologies (ICECET)
Date: October, 2024

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Tongji University
Department of Geotechnical Engineering
Brown University
Department of Cognitive, Linguistic and Psychological Sciences
The Hong Kong Polytechnic University
Research Centre for Smart Urban Resilience and Firefighting, Department of Building Environment and Energy Engineering
National Research Council Canada
University of Edinburgh
Department of Psychology

Researcher: Yuxin Zhang, Max Kinateder, Anne Templeton, William H. Warren
Title of Paper/Research: A Virtual Reality Experiment on Visual and Auditory Guidance for Egress in Road Tunnel Fires
Journal: Fire Technology
Date: January, 2025

Computer Science

University of Chester

School of Computing and Engineering Sciences

Researcher: Beever Lee, Nigel John, Serban Pop
Title of Paper/Research: Exploring Mixed Reality Level Design Workflows
Journal: University of Chester Theses Collection
Date: April, 2023

University College London

Department of Computer Science

Indian Institute of Technology Guwahati

Department of Design

University of Toronto

Department of Computer Science

Researcher: Anthony Steed, Daniel Archer, Klara Brandsttter, Ben J. Congdon, Sebastian Friston, Priya Ganapathi, Daniele Giunchi, Lisa Izzouzi, Gun Woo (Warren) Park, David Swapp, Felix J. Thiel
Title of Paper/Research: Lessons learnt running distributed and remote mixed reality experiments
Journal: Frontiers in Computer Science
Date: April, 2023

Universitat Politècnica de València

Immersive Interactive Media (IIM) R&D Group

Researcher: Juan González Salinas, Fernando Boronat Seguí, Almanzor Sapena Piera & Francisco Javier Pastor Castillo
Title of Paper/Research: Key Technologies for Networked Virtual Environments
Journal: Multimedia Tools and Applications
Date: April, 2023

University of Kaiserslautern-Landau

Department of Computer Science

Researcher: Alexander Schafer
Title of Paper/Research: Improving essential interactions for immersive virtual environments with novel hand gesture authoring tools
Journal: Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau
Date: May, 2023

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Computer Science

Villanova University

Dept. of Computing Sciences, Center of Excellence in Enterprise Technology

Researcher: Frank Klassner, Andrew Grace
Title of Paper/Research: Campus Visualization Centers: Reflecting and Projecting
Journal: 2023 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)
Date: May, 2023

Heilbronn University
Université catholique de Louvain
UniTyLab

Researcher: Vix Kemanji Ketoma. Jean Vanderdonckt. Gerrit Meixner
Title of Paper/Research: Towards Flexible Authoring and Personalization of Virtual Reality Applications for Training
Journal: Proceedings of the ACM on Human-Computer Interaction, Volume 7, Issue EICS
Date: June, 2023

Chalmers University of Technology

Researcher: Albin Söderback, Vuong Nguten
Title of Paper/Research: Virtual reality in production development projects
Journal: Chalmers ODR
Date: July, 2023

Western University

Electrical and Computer Engineering

Researcher: Virat K. Tripathi
Title of Paper/Research: A Study on the Field of XR Simulation Creation, Leveraging Game Engines to Develop a VR Hospital Framework
Journal: Western Library
Date: August, 2023

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Computer Science

University of Mississippi

Computer Science

Researcher: Jonggu Park
Title of Paper/Research: Transportability of Adversarial Attack
Journal: The University of Mississippi ProQuest Dissertations & Theses
Date: August, 2023

Bursa Uludag University

Department of Computer and Educational Technologies Education

Researcher: Ugur Sirvermez, Sehnaz Baltaci
Title of Paper/Research: Metaverse Applications in Education: Systematic Literature Review and Bibliographic Analysis of 2010–2022
Journal: Metaverse. Studies in Big Data, vol 133. Springer
Date: October, 2023

Université Abdelmalek Essaadi

DSAI2S Research Team, Faculty of Sciences and Technologies of Tangier

Researcher: Ghalia Mdaghri-Alaoui, Abdelhamid Zouhair, Nihad Elghouch
Title of Paper/Research: Employing multi-agent systems to enhance virtual reality platforms
Journal: NISS ,23: Proceedings of the 6th International Conference on Networking, Intelligent Systems & Security
Date: November, 2023

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Yildiz Technical University

Researcher: Burcin Genıs Ergun, Rıfat Sahiner
Title of Paper/Research: Embodiment in Virtual Reality and Augmented Reality Games: An Investigation on User Interface Haptic Controllers
Journal: Journal of Soft Computing and Artificial Intelligence
Date: January, 2024

University College London

Computer Science

Researcher: Daniele Giunchi, Nels Numan, Elia Gatti Anthony Steed
Title of Paper/Research: DreamCodeVR: Towards Democratizing Behavior Design in Virtual Reality with Speech-Driven Programming
Journal: 2024 IEEE Conference Virtual Reality and 3D User Interfaces (VR)
Date: March, 2024

KU Leuven

Department of Computer Science

Research & Design - Department of Architecture

Researcher: Jihae Han, Andrew Vande Moere, Adalberto L. Simeone
Title of Paper/Research: Meaning Follows Purpose: Unravelling the Architectural Design Conventions in the Contemporary Metaverse
Journal: „CHI ,24: Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems
Date: May, 2024

Computer Science

Leibniz Supercomputing Centre

Researcher: Elisabeth Mayer, Thomas Odaker, Daniel Kolb, Simone Müller, Dieter Kranzlmüller
Title of Paper/Research: LED CAVE - New Dimensions for Large-Scale Immersive Installations
Journal: 2024 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)
Date: May, 2024

Chandigarh University

Department of Computer Science & Engineering

Researcher: Ritesh Raj, Mohali, Punjab, Kuldeep Kumar, Aditya Prakash, Abhishek Kumar, Sujata Kumari, Guddu Kumar
Title of Paper/Research: Enhancing E-Commerce Engagement: Exploring AR and VR-Based Marketing Strategies
Journal: 2024 International Conference on Computational Intelligence and Computing Applications (ICCICA), Samalkha, India, 2024
Date: May, 2024

Slovak University of Technology in Bratislava

Faculty of Informatics and Information Technologies

Researcher: Miroslav Kozma, Juraj Vincur, Peter Kapec
Title of Paper/Research: CollaVRation: An Immersive Virtual Environment for Collaborative Software Development
Journal: Intelligent Computing Proceedings of the 2024 Computing Conference, Volume 4
Date: June, 2024

Computer Science

Universidad de Ingenieria y Tecnologia
Ingenieria Mecanica
Universidade de Lisboa
CIPER, Faculdade de Motricidade Humana
Seoul National University
Department of Physics and Astronomy and Center for Theoretical Physics
University of Alberta
Department of Mechanical Engineering
Department of Biomedical Engineering
Glenrose Rehabilitation Hospital

Researcher: Wangdo Kim, Duarte Araujo, MooYoung Choi, Albert Vette, Eunice Ortiz
Title of Paper/Research: Algorithmic implementation of visually guided interceptive actions: Harmonic ratios and stimulation invariants
Journal: Algorithms for Virtual and Augmented Environments
Date: June, 2024

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National Institute of Electronics and Information Technology

Researcher: Sandeep Kumar Ahlawat
Title of Paper/Research: Digital Sign Language Interpreter to Let World Learn and Communicate—A Developmental Approach
Journal: Proceedings of the NIELIT‘s International Conference on Communication, Electronics and Digital Technology, NICEDT-2024, Volume 2
Date: July, 2024

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University of Colorado Denver
University of Tampa

Researcher: Ersin Dincelli, Alper Yayla
Title of Paper/Research: Teaching Case: Security and Privacy Implications of Virtual Reality Applications in the Metaverse: A Case of Development, Security, and Operations (DevSecOps)
Journal: Journal of Information Systems Education: Vol. 35 : Iss. 3 , 261-270.
Date: August, 2024

Computer Science

Universidad de Ingenieriay Tecnologia

Ingenieria Mecanica

Researcher: Wangdo Kim, Eunice Ortiz
Title of Paper/Research: Algorithmic Implementation of Visually Guided Interceptive Actions: Enhancing Motion Perception in Virtual and Augmented Reality Systems
Journal: International Journal of Media and Networks
Date: October, 2024

Tohoku University

Graduate School of Information Sciences

Researcher: Kazumichi Matsumiya, Keisuke Arai
Title of Paper/Research: Does Unconscious Information Improve Perceptual Decision-making?
Journal: Interdisciplinary Information Sciences
Date: October, 2024

University Institute of Lisbon

Department of Marketing, Operations and General Management

Researcher: Ruoxuan Xu, Miguel Jorge da Cruz Lage
Title of Paper/Research: Research on VR glasses marketing plan of X technology company
Journal: T&D-DM - Dissertações de mestrado
Date: October, 2024

ETH Zuric

Department of Information Technology and Electrical Engineering

Researcher: Frederik Zumegen, Christoph Studer
Title of Paper/Research: A Software-Defined and Distributed Wi-Fi Channel-State Information Acquisition Testbed
Journal: 58th Asilomar Conference on Signals, Systems, and Computers
Date: December, 2024

Ahram Canadian University

Faculty of computer science and information technology

Researcher: Dina Darwish
Title of Paper/Research: Virtual Reality Technologies and Real Life Applications
Journal: Deep Science
Date: February, 2025

Villanova University

Computing Sciences Department

Researcher: Frank Klassner
Title of Paper/Research: Introducing Students to Python and Virtual Reality Through Vizard
Journal: SIGCSETS 2025: Proceedings of the 56th ACM Technical Symposium on Computer Science Education V. 2
Date: February, 2025

National Kaohsiung University of Science and Technology

Department of Intelligent Commerce

Researcher: Shih-Hsiung Lee, Hsuan-Chih Ku
Title of Paper/Research: SIAR: Signing in the Air Based on Patching-Gated Recurrent Unit Model for Fine-Grained Trajectory Feature Learning
Journal: IEEE Sensors Journal (Volume: 25, Issue: 7)
Date: March, 2025

Lawrence Berkeley National Laboratory

Applied Math and Computational Research Division

Researcher: Daniela Ushizima, Guilherme Melo dos Santos, Zineb Sordo, Ronald Pandolfi, Jeffrey Donatelli
Title of Paper/Research: Ascribe New Dimensions to Scientific Data Visualization with VR
Journal: Cornell University arXiv
Date: April, 2025

Computer Science

North Carolina Agricultural and Technical State University

Computational Data Science and Engineering, College of Engineering

Researcher: Abhinav Pendem, Koundinya Challa
Title of Paper/Research: A Pipeline for Immersive Data Visualization for CAVE System
Journal: 2025 Graduate Student Research Symposium. 162.
Date: April, 2025

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North Carolina A&T State University

Dept. Computational Data Science and Engineering

Researcher: Koundinya Challa, Chandra Jaiswal, Abhinav Pendem, Balakrishna Gokaraju
Title of Paper/Research: A Pipeline for Immersive Data Visualization in CAVE Systems
Journal: IEEE SoutheastCon 2025
Date: April, 2025

University of Calgary

Faculty of Kinesiology

Biomedical Engineering

Hotchkiss Brain Institute

University of British Columbia Okanagan

School of Health and Exercise Sciences

York University

Faculty of Health

Researcher: Daniel D. Hodgson, Jordan A. King, Osman Darici, Brian H. Dalton, Taylor W. Cleworth, Ryan M. Peters

Title of Paper/Research: Visual feedback-dependent modulation of arousal, postural control, and muscle stretch reflexes assessed in real and virtual environments

Journal: clinical Biomechanics Volume 108, August 2023, 106043

Date: April, 2023

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Akita University Graduate School of Health Sciences

Department of Physical Therapy

Akita Prefectural Center on Development and Disability

Department of Medicine

Akita University Graduate School of Engineering Science

Researcher: Minoru Kimoto, Kyoji Okada, Kazutaka Mitobe, Masachika Saito, Hitoshi Sakamoto

Title of Paper/Research: Gait velocity control using projection mapping for children with spastic diplegia cerebral palsy

Journal: Clinical Biomechanics Volume 108, August 2023, 106043

Date: July, 2023

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York University, Toronto

School of Kinesiology and Health Science

Centre for Vision Research

University of Basel Hospital

Department of Otorhinolaryngology

University of British Columbia

School of Kinesiology

Researcher: Taylor W. Cleworth, John H. J. Allum, Emma I. Nielsen, Mark G. Carpenter

Title of Paper/Research: The Effect of Roll Circular Vection on Roll Tilt Postural Responses and Roll Subjective Postural Horizontal of Healthy Normal Subjects

Journal: Brian Science 2023

Date: October, 2023

Kinesiology

York University

Kinesiology and Health Science

Researcher: Erika Helena Tworzyanski
Title of Paper/Research: The effect of dual-task difficulty on automatic and conscious postural control
Journal: York Space
Date: December, 2023

York University

School of Kinesiology and Health Science
Center for Vision Research

Researcher: Noor J. Hamam, Taylor W. Cleworth
Title of Paper/Research: Comparing the effects of different circular vection stimuli on upright stance
Journal: Gait & Posture Volume 109, March 2024
Date: February, 2024

York University

Kinesiology and Health Science

Researcher: Noor J. Hamam
Title of Paper/Research: The Effect of Circular Vection on the Subjective Postural Horizontal in the Pitch Plane
Journal: York University Electronic Theses and Dissertations
Date: March, 2024

University of British Columbia

Kinesiology

Researcher: Heather Pudwell, Mark G. Carpenter
Title of Paper/Research: Measuring balance deficits in chronic inflammatory demyelinating polyneuropathy
Journal: Vancouver University of British Columbia Library
Date: March, 2024

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Kinesiology

University of Waterloo

Neurocognition and Mobility Lab

Department of Kinesiology and Health Sciences

Researcher: Pershia Norouzian, Brian C. Horslen, Kaylena A. Ehgoetz Martens
Title of Paper/Research: The effects of trait and state anxiety on gait in healthy young adults
Journal: Experimental Brain Research
Date: March, 2024

University of British Columbia

Kinesiology

Researcher: Jeffrey Kelly, Mark G. Carpenter
Title of Paper/Research: Scaling and adaptation of dynamic balance responses in Parkinson's disease
Journal: Vancouver University of British Columbia Library
Date: May, 2024

York University

Kinesiology & Health Science

Researcher: Daniel Alon Laurenza
Title of Paper/Research: Effects of Manipulating Optic Flow Gain on Dynamic Postural Control During Continuous Support Surface Translations
Journal: York University Electronic Theses and Dissertations
Date: July, 2024

Kinesiology

Akita University Graduate School of Health Sciences

Department of Physical Therapy

Akita Prefectural Center on Development and Disability

Department of Medicine

Akita University Graduate School of Engineering Science

Researcher: Minoru Kimoto, Kyoji Okada, Kazutaka Mitobe, Masachika Saito, Hitoshi Sakamoto

Title of Paper/Research: Strategies for unplanned gait termination at comfortable and fast walking speeds in children with cerebral palsy

Journal: Journal of Biomechanics Volume 176, November 2024, 112349

Date: September, 2024

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University of Southern California

Division of Biokinesiology and Physical Therapy

Neuroscience Graduate Program

Department of Biomedical Engineering

Department of Computer Science

Department of Neurology

Researcher: Aram Kim, Nicolas Schweighofer, Giselle M. Petzinger, James M. Finley

Title of Paper/Research: Uncovering locomotor learning dynamics in people with Parkinson's disease

Journal: bioRxiv The Preprint Server for Biology

Date: October, 2024

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Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA)

Researcher: Peter Nickel, Andy Lungfiel

Title of Paper/Research: Evaluation of joystick built-in emergency stop function for mobile elevating work platform safety and human factors and ergonomics in accident prevention

Journal: Zeitschrift für Arbeitswissenschaft

Date: November, 2024

Queen's University

School of Medicine

York University

School of Kinesiology and Health Sciences

Centre for Vision Research

Researcher: Lisa K. Lavalle, Nora Pourhashemi, Taylor W. Cleworth
Title of Paper/Research: The relationship between a simulated glaucoma impairment and postural threat on quiet stance
Journal: Clinical Biomechanics Volume 108, August 2023, 106043
Date: January, 2025

University of British Columbia

Kinesiology

Researcher: Xiangwei Zhang, Mark G. Carpenter
Title of Paper/Research: Transferal of postural and emotional adaptation from virtual to real heights
Journal: UBC Theses and Dissertations
Date: January, 2025

York University

School of Kinesiology and Health Sciences

Centre for Vision Research

Researcher: Nora Pourhashemi, Taylor W. Cleworth
Title of Paper/Research: Exploring the role of reduced optic flow in dynamic balance
Journal: Gait & Posture, Volume 118, May 2025
Date: February, 2025

University of British Columbia

Kinesiology

Researcher: Solenne Marie Phuong Villemer, Mark G Carpenter, J. Timothy Inglis
Title of Paper/Research: Implicit adaptation to galvanic vestibular perturbations during goal-directed postural movements
Journal: UBC Theses and Dissertations
Date: March, 2025

Kinesiology

York University

Kinesiology and Health Science

Researcher: Kayton Yanko Jaksic
Title of Paper/Research: Effect of Dynamic Visual Cues during Dynamic Balance on Perceived Movement and Postural Responses
Journal: York Space
Date: April, 2025

Akita University

Graduate School of Health Sciences, Department of Physical Therapy

Graduate School of Engineering Science

Akita Prefectural Center on Development and Disability

Department of Medicine

Researcher: Minoru Kimoto, Kyoji Okada, Kazutaka Mitobe, Masachika Saito, Hitoshi Sakamoto
Title of Paper/Research: Biomechanical analysis of gait termination within set stopping distance: A pilot study
Journal: Journal of Biomechanics, Volume 188, July 2025
Date: May, 2025

University of Rome
- *Unit of Histology and Medical Embryology, SAIMLAL Department*

BrainSigns Ltd

Sapienza University of Rome
- *Department of Molecular Medicine*
- *Art and Medical Humanities Lab*
- *Department of Human Neuroscience*
- *Department of Computer, Control and Management Engineering "Antonio Ruberti"*

Duke University
- *Department of Classical Studies*

Roma Tre University
- *Department of Political Sciences*

Libera Università Maria SS. Assunta (LUMSA)
- *Department of Law, Economics, Politics and Modern Languages*

Hangzhou Dianzi University
- *Department of Computer Science*

Researcher: Andrea Giorgi, Stefano Menicocci, Maurizio Forte, Vincenza Ferrara, Marco Mingione, Pierfrancesco Alaimo Di Loro, Bianca Maria Serena Inguscio, Silvia Ferrara, Fabio Babiloni, Alessia Vozzi, Vincenzo Ronca, Giulia Cartocci

Title of Paper/Research: Virtual and Reality: A Neurophysiological Pilot Study of the Sarcophagus of the Spouses

Journal: Electroencephalography 3.0: From the Laboratory to the Mass-Market for a Daily-Life Use

Date: April, 2023

IIT Gandhinagar

B. M. Institute of Mental Health

Researcher: Dharma Rane, Madhu Singh, Uttama Lahiri

Title of Paper/Research: Virtual reality based gaze-sensitive aiming task platform: role of attention allocation in task performance for individuals with autism and typically developing individuals

Journal: IEEE Transactions on Neural Systems and Rehabilitation Engineering (Volume: 31)

Date: April, 2023

University of Pittsburgh

Swanson School of Engineering

Researcher: Dulce M. Mariscal Olivares
Title of Paper/Research: Effect of Intrinsic and Extrinsic Factors on the Generalization of Locomotor Adaptation
Journal: University of Pittsburgh ProQuest Dissertations & Theses
Date: April, 2023

Wayne State University

Department of Psychiatry and Behavioral Neurosciences, School of Medicine

Department of Pharmacy Practice, Eugene Applebaum College of Pharmacy and Health Sciences

Researcher: Hilary A. Marusak, Craig Peters, Christine A. Rabinak
Title of Paper/Research: Using virtual reality to study fear and extinction in children and adolescents
Journal: Neuromethods ((NM,volume 198))
Date: May, 2023

University of California San Diego
Victoria University of Wellington

Researcher: Ying Choon Wu, Christopher Maymon, Jonathon Paden, Weichen Liu
Title of Paper/Research: Launching Your VR Neuroscience Laboratory
Journal: Current Topics in Behavioral Neurosciences (CTBN,volume 65)
Date: June, 2023

Technische Universität Dresden

Researcher: Judith Josupeit
Title of Paper/Research: Let’s get it started: Eye Tracking in VR with the Pupil Labs Eye Tracking Add-On for the HTC Vive
Journal: Journal of Eye Movement Research
Date: June, 2023

Neuroscience

University of Oregon

Department of Human Physiology

Institute of Neuroscience

Phil and Penny Knight Campus for Accelerating Scientific Impact

King's College London

Faculty of Life Sciences and Medicine

Researcher: Joshua T. Bland, Marco Davare, Michelle Marneweck

Title of Paper/Research: Visual information following object grasp supports digit position variability and swift anticipatory force control

Journal: Journal of Neurophysiology

Date: June, 2023

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West Virginia University

Biomedical Sciences

Exercise Physiology

Researcher: Matthew Yough

Title of Paper/Research: Advancing Medical Technology for Motor Impairment Rehabilitation: Tools, Protocols, and Devices

Journal: West Virginia University ProQuest Dissertations & Theses

Date: July, 2023

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University of Toronto

Institute of Medical Science

Researcher: Stephanie Tran

Title of Paper/Research: Sensorimotor Integration in Parkinson's Disease During Lower Limb Movements

Journal: University of Toronto (Canada) ProQuest Dissertations & Theses

Date: July, 2023

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Arizona State University

Researcher: Diego E. Arias Velasquez

Title of Paper/Research: Effect of Intrinsic and Extrinsic Factors on the Generalization of Locomotor Adaptation

Journal: Arizona State University ProQuest Dissertations & Theses

Date: August, 2023

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The Johns Hopkins University School of Medicine

Department of Neuroscience

Neuroscience Graduate Program

Kennedy Krieger Institute

Center for Movement Studies

University of Southern California

Division of Biokinesiology and Physical Therapy

Neuroscience Graduate Program

Researcher: Cristina Rossi, Kristan A Leech, Ryan T Roemmich, Amy J Bastian

Title of Paper/Research: Automatic learning mechanisms for flexible human locomotion

Journal: National Center for Biotechnology Information

Date: September, 2023

Leiden University

Faculty of Governance and Global Affairs

Maastricht University

Health Services Research, Faculty of Health, Medicine and Life Sciences

Open University

Faculty of Education Sciences

Researcher: Joy Yeonjoo Lee, Nynke de Jong, Jeroen Donkers, Halszka Jarodzka, Jeroen J. G. van Merriënboer

Title of Paper/Research: Measuring Cognitive Load in Virtual Reality Training via Pupillometry

Journal: IEEE Transactions on Learning Technologies, vol. 17

Date: October, 2023

University of Zurich

Faculty of Science

Researcher: Bingjie Cheng

Title of Paper/Research: Human spatial navigation in the digital era: Effects of landmark depiction on mobile maps on navigators' spatial learning and brain activity during assisted navigation

Journal: UZH Dissertations

Date: October, 2023

Neuroscience

McMaster University

Department of Psychology, Neuroscience, and Behaviour

Researcher: Noah Britt, Hanna Haponenko, Hong-jin Sun

Title of Paper/Research: Spatial Frames of Reference of Attention in Three-Dimensional Space

Journal: PsyArXiv Preprints

Date: November, 2023

University of Coimbra

Coimbra Institute for Biomedical Imaging and Translational Research CIBIT

Institute for Nuclear Sciences Applied to Health ICNAS

Faculty of Medicine

Centre for Informatics and Systems

University of Maastricht

Department of Psychology

Researcher: Daniela Sousa, Ana Ferreira, Diana Rodrigues, Helena Catarina Pereira, Joana Amaral, Joana Crisostomo, Marco Simoes, Mrio Ribeiro, Marta Teixeira, Miguel Castelo-Branco

Title of Paper/Research: A neurophysiological signature of dynamic emotion recognition associated with social communication skills and cortical gamma-aminobutyric acid levels in children

Journal: Frontiers in Neuroscience

Date: December, 2023

Family Health Research Institute

Maternal, Fetal, and Neonatal Research Center

Tehran University of Medical Sciences

School of Medicine

Neuroscience Research Center

Iranian Center of Neurological Research, Neuroscience Institute

Multiple Sclerosis Research Center, Neuroscience Institute, Sina Hospital

Researcher: Mohammadamin Parsaei, Mobina Amanollahi, Fateme TaghaviZanjani, Shaghayegh Khanmohammadi, Melika Jameie, Abdorreza Naser Moghadasi

Title of Paper/Research: Effects of non-pharmacological interventions on gait and balance of persons with Multiple Sclerosis: A narrative review

Journal: Multiple Sclerosis and Related Disorders Volume 82

Date: December, 2023

Back to top

Massachusetts Institute of Technology

Human Systems Laboratory

Brigham and Women’s Hospital

Division of Sleep and Circadian Disorders,

Departments of Medicine and Neurology

Harvard Medical School

Division of Sleep Medicine

NASA Ames Research Center

Fatigue Countermeasures Group, Human Systems Integration Division

Researcher: Andrew M. Liu, Raquel C. Galvan-Garza, Erin E. Flynn-Evans, Melanie Rueger, Alan Natapoff, Steven W. Lockley, Charles M. Oman

Title of Paper/Research: Effects of caffeine and blue-enriched light on spare visual attention during simulated space teleoperation

Journal: npj Microgravity volume 9

Date: December, 2023

Erasmus University Rotterdam

Department of Neuroscience

University of Otago

School of Physical Education, Sport and Exercise Sciences

Researcher: Brandon Gerald Rasman, Christopher Button, Jon Shemmell

Title of Paper/Research: Sensorimotor learning and self-motion perception in human balance control

Journal: DigitalNZ

Date: January, 2024

Liverpool John Moores University

School of Psychology

Durham University

Psychology Department

Researcher: James Negen, Heather Slater, Marko Nardini

Title of Paper/Research: Sensory augmentation for a rapid motor task in a multisensory environment

Journal: Restorative Neurology and Neuroscience. 2024;42(2)

Date: January, 2024

Western University

The Brain and Mind Institute

Department of Neuroscience, Schulich School of Medicine and Dentistry

BrainsCAN

Department of Psychology

Department of Clinical Neurological Sciences

University of Ottawa

Department of Medicine

Researcher: Abdullah Al Jaja, Téa Sue, Margaret Prenger, Ken N. Seergobin, Jessica A. Grahn, Penny A. MacDonald

Title of Paper/Research: Alprazolam Reduces Freezing of Gait (FOG) and Improves FOG-Related Gait Deficiencies

Journal: Parkinson‘s Disease

Date: January, 2024

* * *

George Mason University

University of Arizona

Researcher: Keri Anne Gladhill, Eva Marie Robinson, Candice Stanfield-Wiswell, Farah Bader, Martin Wiener

Title of Paper/Research: Separable Representations for Duration and Distance in Virtual Movements

Journal: Journal of Cognitive Neuroscience

Date: March, 2024

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Zhejiang University

Department of Psychology and Behavioral Sciences

German Center for Neurodegenerative Diseases (DZNE)

Otto-von-Guericke University Magdebur

Department of Neurology

Center for Behavioral Brain Sciences (CBBS)

Department of Anatomy & Psychiatry

Researcher: Xiaoli Chen, Ziwei Wei, Thomas Wolbers

Title of Paper/Research: Repetition Suppression Reveals Cue-Specific Spatial Representations for Landmarks and Self-Motion Cues in the Human Retrosplenial Cortex

Journal: eNeuro Vol. 11, Issue 4

Date: March, 2024

Neuroscience

West Virginia University

Department of Human Performance

Department of Neuroscience

Researcher: Serhii Bahdasariants, Matthew G. Yough, Valeriya Gritsenko
Title of Paper/Research: Impedance-Based Biomechanical Method for Robust Inverse Kinematics From Noisy Data
Journal: IEEE Sensors Letters Volume: 8, Issue: 6, June 2024
Date: April, 2024

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University of California, Irvine

Department of Cognitive Sciences

Department of Neurobiology and Behavior

Harvard Medical School

Department of Neurology, Massachusetts General Hospital

Boston University

Department of Psychological and Brain Sciences

University of California

Department of Geography

Researcher: You Cheng, Sam Ling, Chantal E. Stern, Andrew Huang, Elizabeth R. Chrastil
Title of Paper/Research: (Don't) Look Where You Are Going: Evidence for a Travel Direction Signal in Humans That Is Independent of Head Direction
Journal: Journal of Experimental Psychology: General. Volume 153, Issue 4
Date: April, 2024

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University of Oregon

Department of Human Physiology

Institute of Neuroscience

Phil and Penny Knight Campus for Accelerating Scientific Impact

Researcher: Catherine Anne Sager, Ella Diamond, Miranda Rose Hulsey-Vincent, Michelle Marneweck
Title of Paper/Research: Repeated context-specific actions disrupt feedforward adjustments in motor commands in younger and older adults
Journal: Journal of Neurophysiology Volume 131Issue 5, May 2024
Date: May, 2024

Neuroscience

Robert D. Clark Honors College

Department of Neuroscience

Researcher: Ella Diamond

Title of Paper/Research: Age-related differences in motor adaptation: Investigating habitual movement partners and performance in older and younger adults

Journal: Clark Honors College Theses

Date: May, 2024

University of Coimbra

Institute for Nuclear Sciences Applied to Health (ICNAS), Coimbra Institute for Biomedical Imaging and Translational Research (CIBIT)

Faculty of Medicine (FMUC)

Faculty of Science and Technology, Center for Informatics and Systems of University of Coimbra (CISUC)

Centre for Prevention and Treatment of Psychological Trauma (CPTTP), Department of Psychiatry

Researcher: Isabel C. Duarte, Ana Dionísio, Joana Oliveira, Marco Simões, Rita Correia, Joana A. Dias, Salomé Caldeira, João Redondo, Miguel Castelo-Branco

Title of Paper/Research: Neural underpinnings of ethical decisions in life and death dilemmas in naïve and expert firefighters

Journal: Scientific Reports volume 14, Article number: 13222 (2024)

Date: June, 2024

West Virginia University

Department of Human Performance

Department of Neuroscience

Researcher: Anna S. Korol, Valeriya Gritsenko

Title of Paper/Research: Differential Impact of Biomechanical Constraints on Control Signal Dimensionality for Gravity Support Versus Propulsion

Journal: bioRxiv The Preprint Server for Biology

Date: June, 2024

The University of Iowa

Department of Psychological and Brain Sciences
Department of Psychiatry
Department of Health and Human Physiology
Department of Internal Medicine
Department of Biostatistics
Department of Neuroscience and Pharmacology
Department of Neurology
Interdisciplinary Neuroscience Training Program

Researcher: Michelle W. Voss, Chris Oehler, Will Daniels, Matthew Sodoma, Bryan Madero, James Kent, Shivangi Jain, Myungjin Jung, Virginia R. Nuckols, Lyndsey E. DuBose, Kristen G. Davis, Abby O'Deen, Chase Hamilton, Kelsey Baller, Jenna Springer, Adriana Rivera-Dompenciel, Marco Pipoly, Michael Muellerleile, Nagalakshmi Nagarajan, Thorarinn Bjarnason, Nidal Harb, Li-Chun Lin, Vincent Magnotta, Eliot Hazeltine, Jeffrey D. Long, Gary L. Pierce
Title of Paper/Research: Exercise effects on brain health and learning from minutes to months: The brain EXTEND trial
Journal: Contemporary Clinical Trials, Volume 145, October 2024, 107647
Date: July, 2024

Indian Statistical Institue

Center for Soft Computing Research
Machine Intelligence Unit

Researcher: Keerthi S. Chandran, Kuntal Ghosh
Title of Paper/Research: A deep learning based cognitive model to probe the relation between psychophysics and electrophysiology of flicker stimulus
Journal: Brain Informatics
Date: July, 2024

Technical University Berlin

Biological Psychology and Neuroergonomics
Bernstein Center for Computational Neuroscience (BCCN)

Researcher: Cindy Jagorska, Martin Riemer
Title of Paper/Research: The influence of travel time on perceived traveled distance varies by spatiotemporal scale
Journal: Experimental Brain Research
Date: July, 2024

Justus Liebig University

Experimental Psychology

Philipps-University

Center for Mind, Brain, and Behavior (CMBB)

Justus-Liebig University

Technical University

Researcher: Immo Schuetz, Katja Fiehler

Title of Paper/Research: Object center of mass predicts pointing endpoints in virtual reality

Journal: Frontiers in Virtual Reality. Section Virtual Reality and Human Behaviour

Date: August, 2024

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University of Regensburg

Media Informatics Group

Technical University Berlin

Biological Psychology and Neuroergonomics

Bernstein Center for Computational Neuroscience (BCCN)

Center for Behavioral Brain Sciences (CBBS)

Researcher: Johanna Bogon, Cindy Jagorska, Isa Steinecker, Martin Riemer

Title of Paper/Research: Age-related changes in time perception: Effects of immersive virtual reality and spatial location of stimuli

Journal: Acta Psychologica, Volume 249, September 2024, 104460

Date: August, 2024

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German Center for Neurodegenerative Diseases (DZNE)

Aging and Cognition Research Group

Tel Hai College

Education Department

Researcher: Maayan Merhav

Title of Paper/Research: How spatial-cue reliability affects navigational performance in young and older adults

Journal: Aging, Neuropsychology, and Cognition , A Journal on Normal and Dysfunctional Development, Volume 32, 2025 - Issue 2

Date: August, 2024

Michigan State University

CARISMA Lab

Researcher: Sue Lim, Ralf Schmälzle, Gary Bente

Title of Paper/Research: Artificial Social Influence: Rapport-Building, LLM-Based Embodied Conversational Agents for Health Coaching

Journal: CONNECT Workshop: 24th ACM International Conference on Intelligent Virtual Agents, Sep. 16-19, 2024

Date: September, 2024

University of L'Aquila

Department of Life, Health and Environmental Sciences

San Raffaele Institute of Sulmona

Euleria Health srl Società Benefit

IRCCS Centro Neurolesi "Bonino-Pulejo"

Researcher: Giovanni Morone, Foivos Papaioannou, Alberto Alberti, Irene Ciancarelli, Mirjam Bonanno, Rocco Salvatore Calabrò

Title of Paper/Research: Efficacy of Sensor-Based Training Using Exergaming or Virtual Reality in Patients with Chronic Low Back Pain: A Systematic Review

Journal: National Center for Biotechnology Information

Date: September, 2024

Universidad Autónoma de Madrid

Facultad de Psicología

The University of Texas at Austin

Institute of Neuroscience

Center for Perceptual Systems

Researcher: M. Pilar Aivar, Chia-Ling Li, Matthew H. Tong, Dmitry M. Kit, Mary M. Hayhoe

Title of Paper/Research: Knowing where to go: Spatial memory guides eye and body movements in a naturalistic visual search task

Journal: Journal of Vision, September 2024, Volume 24, Issue 9

Date: September, 2024

Neuroscience

Arizona State University

Visuomotor Learning Lab, School of Biological and Health Systems Engineering

Researcher: Diego E. Arias, Christopher A. Buneo

Title of Paper/Research: Effects of online and offline trigeminal nerve stimulation on visuomotor learning

Journal: Frontier Human Neuroscience. Section Motor Neuroscience. Volume 18 - 2024

Date: October, 2024

Northeastern University

Department of Physical Therapy, Movement and Rehabilitation Science

Department of Electrical and Computer Engineering

Academy of Physical Education

Institute of Sport Sciences, Department of Human Motor Behavior

University of Rhode Island

Department of Physical Therapy

Researcher: Anna Akbas, Mariusz P. Furmanek, Sarah Hsu, Mathew Yarossi, Eugene Tunik

Title of Paper/Research: Perturbing reach elicits anticipatory responses in transport and grasp

Journal: Frontiers in Human Neuroscience Sec. Motor Neuroscience Volume 18 - 2024

Date: October, 2024

Wayne State University School of Medicine

Translational Neuroscience Program

Department of Psychiatry and Behavioral Neurosciences

Department of Pharmacy Practice

University of Calgary, Hotchkiss Brain Institute

Department of Cell Biology

Department of Anatomy & Psychiatry

Researcher: Nicole L. Zabik, Allesandra Iadipaolo, Craig A. Peters, Samantha L. Baglot, Matthew N. Hill, Christine A. Rabinak

Title of Paper/Research: Dose-dependent effect of acute THC on extinction memory recall and fear renewal: a randomized, double-blind, placebo-controlled study

Journal: Psychopharmacology

Date: October, 2024

Back to top

York University

Centre for Vision Research

Department of Electrical Engineering and Computer Science

Researcher: Hongyi Guo, Robert S. Allison

Title of Paper/Research: Binocular contributions to motion detection and motion discrimination during locomotion

Journal: PLOS One

Date: December, 2024

University of Rhode Island

Department of Physical Therapy

Northeastern University

Department of Physical Therapy, Movement and Rehabilitation Sciences

Department of Electrical and Computer Engineering

Academy of Physical Education in Katowice

Institute of Sport Sciences

Lafayette College

Psychology Department and Neuroscience Program

University of Nebraska

Division of Biomechanics and Research Development, Department of Biomechanics, and Center for Research in Human Movement Variability

New Jersey Institute of Technology

Department of Biomedical Engineering

Rutgers University

Department of Rehabilitation and Movement Sciences

Researcher: Mariusz P. Furmanek, Luis F. Schettino, Mathew Yarossi, Madhur Mangalam, Kyle Lockwood, Sergei V. Adamovich, Eugene Tunik

Title of Paper/Research: Involvement of aSPOC in the online updating of reach-to-grasp to mechanical perturbations of hand transport

Journal: Journal of Neuroscience

Date: January, 2025

Neuroscience

University of Bremen

Cognitive Neuroinformatics

Researcher: Nikolai Bahr, Christoph Zetzsche, Jaime Maldonado, Kerstin Schill

Title of Paper/Research: Cause-effect perception in an object place task

Journal: Frontiers in Cognition

Date: February, 2025

Zhejiang University

Department of Psychology and Behavioral Sciences

German Center for Neurodegenerative Diseases (DZNE)

Otto-von-Guericke University

Department of Neurology

Center for Behavioral Brain Sciences (CBBS) and Environment

Researcher: Xiaoli Chen, Ziwei Wei, Thomas Wolbers

Title of Paper/Research: Representational similarity analysis reveals cue-independent spatial representations for landmarks and self-motion cues in human retrosplenial cortex

Journal: Imaging Neuroscience 2025 Volume

Date: March, 2025

Max Planck Institute for Biological Cybernetics

Translational Sensory & Circadian Neuroscience

Technical University of Munich

Chronobiology & Health, TUM School of Medicine and Health

TUM Institute for Advanced Study (TUM-IAS)

Researcher: Maydel Fernandez-Alonso, Manuel Spitschan

Title of Paper/Research: Standardized and calibrated light stimuli via head-mounted displays for investigating the non-visual effects of light

Journal: bioRxiv The Preprint Server for Biology

Date: April, 2025

West Virginia University

Department of Neuroscience

Researcher: Anna S. Korol, Valeriya Gritsenko
Title of Paper/Research: Control signal dimensionality depends on limb dynamics
Journal: PLOS One
Date: April, 2025

* * *

McMaster University
University of Aberdeen

Researcher: Noah Britt, Hanna Haponenko, Brett A. Cochrane, Bruce Milliken, Hong-jin Sun
Title of Paper/Research: Distribution of attention in three-dimensional space
Journal: Neuropsychologia Volume 212
Date: April, 2025

Psychology

University of Campania

Laboratory of Cognitive Science and Immersive Virtual Reality, CS-IVR Department of Psychology

Researcher: Mariachiara Rapuano, Tina Iachini, Gennaro Ruggiero
Title of Paper/Research: Interaction with Virtual Humans and Effect of Emotional Expressions: Anger Matters!
Journal: Clinical Advances in Psychology and Psychological Distress in Real and Virtual Contexts
Date: March, 2023

……

Zhejiang Sci-Tech University

Department of Psychology

Technical University of Darmstadt

Institute of Psychology

Centre for Cognitive Science

Goethe University

Frankfurt Institute for Advanced Studies

Researcher: Huaiyong Zhao, Dominik Straub, Constantin A. Rothkopf
Title of Paper/Research: People learn a two-stage control for faster locomotor interception
Journal: Psychological Research Volume 88
Date: April, 2023

……

Michigan State University

Department of Communication

Researcher: Gary Bente, Ralf Schmlzle, Nolan T. Jahn, Andrea Schaaf
Title of Paper/Research: Measuring the effects of co-location on emotion perception in shared virtual environments: An ecological perspective
Journal: Frontiers in Virtual Reality
Date: April, 2023

Back to top

Psychology

North Dakota State University
Department of Psychology
Sanford Research
Behavioral Sciences

Researcher: Garrett S. Byron, Anna M. Strahm, Angela G. Bagne, Clayton J. Hilmert
Title of Paper/Research: Using virtual reality to study the impact of audience size on cortisol responses to the Trier Social Stress Test
Journal: International Journal of Virtual Reality
Date: April, 2023

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Zuse Institute Berlin
Computational Diagnosis and Therapy Planning Group, Department of Visual and Data-Centric Computing
Carl von Ossietzky Universität Oldenburg
Department of Psychology

Researcher: C. Martin Grewe, Tuo Liu, Andrea Hildebrandt, Stefan Zachow
Title of Paper/Research: The Open Virtual Mirror Framework for enfacement illusions, Enhancing the sense of agency with avatars that imitate facial expressions
Journal: Behavior Research Methods
Date: May, 2023

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University of New Hampshire
Department of Psychology
University of Iceland
Faculty of Psychology, School of Health Sciences
Ecole Polytechnique Fédérale de Lausanne (EPFL)
Laboratory of Psychophysics

Researcher: Ömer Daglar Tanrikulu, David Pascucci, Árni Kristjánsson
Title of Paper/Research: Stronger serial dependence in the depth plane than the fronto-parallel plane between realistic objects: Evidence from virtual reality
Journal: Journal of Vision May 2023, Vol.23, 20.
Date: May, 2023

Back to top

University of Wisconsin – Green Bay

Department of Psychology

National Institutes of Health

Social and Behavioral Research Branch, National Human Genome Research Institute

Bentley University

Department of Information and Process Management

Researcher: Alison Jane Martingano, Ja-Nae Duane, Ellenor Brown, Susan Persky
Title of Paper/Research: Demographic differences in presence across seven studies
Journal: Virtual Reality Volume 27
Date: May, 2023

* * *

University of Leicester

School of Psychology and Vision Sciences

Researcher: Emre Orun
Title of Paper/Research: Cognitive Components of Small and Large-Scale Foraging Behaviour
Journal: University of Leicester. Thesis.
Date: June, 2023

* * *

Ludwig-Maximilians-Universität München

Department of Psychology

Researcher: Mathias Twardawski, Theresa Blanke, Mario Gollwitzer
Title of Paper/Research: Receiving forgiveness in the presence of an attentive audience
Journal: Comprehensive Results in Social Psychology, Volume 7, 2023
Date: June, 2023

* * *

Michigan State University

Department of Communication

Researcher: Ralf Schmälzle, Sue Lim, Hee Jung Cho, Juncheng Wu, Gary Bente
Title of Paper/Research: The VR Billboard Paradigm: Using VR and Eye-tracking to Examine the Exposure-Reception-Retention Link in Realistic Communication Environments
Journal: bioRxiv The Preprint of Biology
Date: June, 2023

Psychology

MSH Medical School Hamburg

Department of Psychology, Faculty for Life Sciences

ICAN Institute for Cognitive and Affective Neuroscience

Ruhr University Bochum

Faculty of Psychology, Institute of Cognitive Neuroscience, Biopsychology

Researcher: Sebastian Ocklenburg, Jutta Peterburs
Title of Paper/Research: Monitoring Brain Activity in VR: EEG and Neuroimaging
Journal: Virtual Reality in Behavioral Neuroscience: New Insights and Methods
Date: June, 2023

University of Leeds

School of Psychology

Institute for Transport Studies

Researcher: Courtney M. Goodridge, Jac Billington, Gustav Markkula, Richard M. Wilkie
Title of Paper/Research: Error Accumulation When Steering Toward Curves
Journal: Journal of Experimental Psychology: Human Perception and Performance
Date: June, 2023

Johannes Gutenberg-Universität Mainz

Researcher: Daniel Oberfeld, Thirsa Huisman
Title of Paper/Research: Audio-visual perception of vehicles while navigating in traffic: Design, evaluation, and research application of multimodal virtual environment technologies
Journal: Center for Open Science
Date: July, 2023

Back to top

Goethe University
Bournemouth University
King's College London
University of Wollongong

Researcher: Victoria I. Nicholls, Jan Wiener, Andrew Isaac Meso, Sebastien Miellet
Title of Paper/Research: Cognitive ageing and perceptual complexity interact to challenge compensatory strategies in road crossing decisions
Journal: Research Square
Date: August, 2023

Johannes-Gutenberg-Universität Mainz

Researcher: Marlene Wessels, Heiko Hecht, Thirsa Huisman, Daniel Oberfeld
Title of Paper/Research: Trial-by-trial feedback fails to improve the consideration of acceleration in visual time-to-collision estimation
Journal: PLOS ONE 19(12)
Date: August, 2023

Philipps-Universität
Theoretical Cognitive Science, Dept. Psychology

Researcher: Ala Alsaleh, Moritz Schubert, Dominik Endres
Title of Paper/Research: The Effect of Sense of Agency on Self-Efficacy Beliefs: A Virtual Reality Paradigm
Journal: SAP 2023: ACM Symposium on Applied Perception 2023
Date: August, 2023

Psychology

Max Planck Institute for Psycholinguistics
Radboud University
Donders Institute for Brain, Cognition, and Behavior
University of Glasgow
Centre for Social, Cognitive and Affective Neuroscience (cSCAN)
Department of Communication and Cognition
Tilburg University

Researcher: Renuka Raghavan, Limor Raviv, David Peeters
Title of Paper/Research: What's your point? Insights from virtual reality on the relation between intention and action in the production of pointing gestures
Journal: Cognition Volume 240, November 2023, 105581
Date: August, 2023

* * *

Brown University
Department of Cognitive, Linguistic, and Psychological Sciences

Researcher: Jiuyang Bai, William H. Warren
Title of Paper/Research: Relative rate of expansion controls speed in one-dimensional pedestrian following
Journal: Journal of Vision September 2023, Vol.23
Date: September, 2023

* * *

Goethe University Frankfurt
Department of Psychology
University of Oxford
Department of Experimental Psychology
Wellcome Centre for Integrative Neuroimaging
Oxford Centre for Human Brain Activity
Department of Psychiatry

Researcher: Aylin Kallmayer, Melissa L.-H. Võ, Dejan Draschkow
Title of Paper/Research: Viewpoint dependence and scene context effects generalize to depth rotated three-dimensional objects
Journal: Journal of Vision September 2023, Vol.23, 9
Date: September, 2023

Psychology

University of Glasgow

School of Psychology and Neuroscience

School of Education

Researcher: Rebecca Taylor, Sarune Savickaite, Susanna Henderson, David Simmons
Title of Paper/Research: Using immersive virtual reality to recreate the synaesthetic experience
Journal: Sage Journals
Date: September, 2023

Central China Normal University

School of Psychology

Researcher: Yuewen Jiang, Fengxiao Hao, Zhenyi Huang, Ling Chen, Xiaorong Cheng, Zhao Fan, Xianfeng Ding
Title of Paper/Research: Does walking/running experience shape the sagittal mental time line?
Journal: Consciousness and Cognition, Volume 116
Date: October, 2023

Gachon University

Department of Early Childhood Education

Researcher: Kijoo Cha
Title of Paper/Research: The influence of classroom size and window view on young children's executive functions and physiological responses, based on VR technology
Journal: Behaviors in Educational Settings
Date: November, 2023

Back to top

University of Alberta

Department of Psychology

Researcher: Yue Chen, Weimin Mou
Title of Paper/Research: Path integration, rather than being suppressed, is used to update spatial views in familiar environments with constantly available landmarks
Journal: Cognition Volume 242, January 2024, 105662
Date: November, 2023

Michigan State University

Department of Communication, College of Communication Arts and Sciences

Researcher: Ralf Schmälzle, Sue Lim, Hee Jung Cho, Juncheng Wu, Gary Bente
Title of Paper/Research: Examining the exposure-reception-retention link in realistic communication environments via VR and eye-tracking: The VR billboard paradigm
Journal: PLOS One
Date: November, 2023

The University of Texas at Austin

Department of Psychology

Center for Perceptual Systems

Palo Alto University

Department of Psychology

Researcher: Mikael Rubin, Karl Muller, Mary M. Hayhoe, Michael J. Telch
Title of Paper/Research: Attentional heterogeneity in social anxiety disorder: Evidence from Hidden Markov Models
Journal: Behaviour Research and Therapy Volume 173
Date: December, 2023

Soochow University

Department of Psychology

Tsinghua University

Department of Psychology

Researcher: Yilin Yang, Mengying Liu, Jianping Huang, Xiaoang Wan
Title of Paper/Research: Making choices of food and non-food products: a comparison between virtual stores and online shopping
Journal: International Journal of Food Science and Technology, Volume 59, Issue 3, March 2024, Pages 1644–1652
Date: January, 2024

Goethe University

Department of Psychology and Sports Sciences

Bournemouth University

Department of Psychology

Researcher: Victoria I. Nicholls, Jan Wiener, Andrew Isaac Meso, Sebastien Miellet
Title of Paper/Research: The impact of perceptual complexity on road crossing decisions in younger and older adults
Journal: Scientific Reports volume 14, Article number: 479 (2024)
Date: January, 2024

Michigan State University

Department of Communication

Researcher: Ralf Schmälzle, Juncheng Wu, Sue Lim, Gary Bente
Title of Paper/Research: The eyes have it: Inter-subject correlations of pupillary responses for audience response measurement in VR
Journal: bioRxiv The Preprint Server for Biology
Date: January, 2024

University of Toledo

Department of Psychology

Department of Dentistry

University of Texas Rio Grande Valley

Department of Psychological Science

Arizona State University

Edson College of Nursing and Health Innovation

University of Sydney

Department of Psychology

Wayne State University

Department of Psychiatry and Behavioral Neurosciences, School of Medicine

Department of Pharmacy Practice

Researcher: Andrew L. Geers, Laura D. Seligman, Keenan A. Pituch, Ben Colagiuri, Hilary A. Marusak, Christine A. Rabinak, Sena L. Al-Ado, Natalie Turner, Michael Nedley

Title of Paper/Research: A test of pre-exposure spacing and multiple context pre-exposure on the mechanisms of latent inhibition of dental fear: A study protocol

Journal: BMC Psychology Volume 12

Date: February, 2024

Kiel University

Institute of Medical Psychology and Medical Sociology

Ruprecht-Karls-University Heidelberg

Department of Child and Adolescent Psychiatry and Psychotherapy

Center for Innovative Psychiatric and Psychotherapeutic Research (CIPP)

Institute of Cognitive and Clinical Neuroscience

Researcher: Sebastian Siehl, Kornelius Kammler-Sücker, Stella GuldnerStella Guldner, Yannick Janvier, Rabia Zohair, Frauke Nees

Title of Paper/Research: To trust or not to trust? Face and voice modulation of virtual avatars

Journal: Frontiers Virtual Real., Sec. Virtual Reality and Human Behaviour

Date: February, 2024

Psychology

Uniwersytet SWPS
Institute of Psychology
Gdansk University of Technology
Faculty of Electronics, Telecommunication and Informatics
Jagiellonian University
Institute of Psychology

Researcher: Agnieszka Popławska, Jacek Lebiedz, Przemysław Babel
Title of Paper/Research: Harnessing the power of immersive virtual reality therapy
Journal: Smart VR/AR/MR Systems for Professionals
Date: February, 2024

University of Alberta
Department of Psychology

Researcher: Yafei Qi, Weimin Mou
Title of Paper/Research: Relative cue precision and prior knowledge contribute to the preference of proximal and distal landmarks in human orientation
Journal: Cognition, Volume 247
Date: March, 2024

University of Reunion Island
CEMOI Laboratory, IAE Reunion
University of Lausanne
Faculty of Business and Economics

Researcher: Emmanuelle P. Kleinlogel, Marianne Schmid Mast, Laetitia A. Renier
Title of Paper/Research: The effect of gender on emotional reactions and perceptions when individuals meet themselves in immersive virtual reality
Journal: Scientific Reports Volume 14, Article number: 6953 (2024)
Date: March, 2024

Johannes Gutenberg-Universität
Institute of Psychology, Section Experimental Psychology

Researcher: Marlene Wessels, Daniel Oberfeld
Title of Paper/Research: A binary acceleration signal reduces overestimation in pedestrians' visual time-to-collision estimation for accelerating vehicles
Journal: Heliyon Volume 10, Issue 6, 30 March 2024, e27483
Date: March, 2024

Psychology

Michigan State University
Department of Communication

Researcher: Sue Lim, Hee Jung Cho, Moonsun Jeon, Xiaoran Cui, Ralf Schmälzle
Title of Paper/Research: Using VR and eye-tracking to study attention to and retention of AI-generated ads in outdoor advertising environments
Journal: bioRxiv The Preprint Server for Biology
Date: August, 2024

Michigan State University
Department of Communication

Researcher: Moonsun Jeon, Sue Lim, Maria K. Lapinski, Stephen A. Spates, Gary Bente, Ralf Schmälzle
Title of Paper/Research: Attention and Retention Effects of Culturally Targeted Billboard Messages: An Eye-Tracking Study Using Immersive Virtual Reality
Journal: bioRxiv The Preprint Server for Biology
Date: September, 2024

University of Guelph
Department of Psychology

Researcher: Barbara A Morrongiello, Michael Corbett, Caroline Zolis
Title of Paper/Research: Developmental changes in how pedestrians cross streets in single- vs. dual-lane traffic conditions
Journal: Journal of Pediatric Psychology, Volume 49, Issue 10, October 2024
Date: October, 2024

University of Alberta
Department of Psychology

Researcher: Yafei Qi, Weimin Mou
Title of Paper/Research: The Processes of Path Integration and Landmark-based Navigation in Human Adults
Journal: ERA: Education and Research Archive
Date: April, 2024

Radboud University
Centre for Language Studies
Max Planck Institute for Psycholinguistics
Department of Communication and Cognition

Researcher: Alex Titus, David Peeters, Tilburg University
Title of Paper/Research: Multilingualism at the Market: A Pre-registered Immersive Virtual Reality Study of Bilingual Language Switching
Journal: Journal of Cognition
Date: April, 2024

Zhejiang University
Department of Psychology and Behavioral Sciences
Vanderbilt University
Department of Psychology

Researcher: Xiaoli Chen, Yingyan Chen, Timothy P. McNamara
Title of Paper/Research: Untangling Cue Conflicts: Understanding Spatial Cue Interaction in Navigation through the Bayesian Causal Inference Approach
Journal: Research Gate
Date: May, 2024

Tsinghua University
Department of Psychological and Cognitive Sciences

Researcher: Linbo Qiu, Xiaoang Wan
Title of Paper/Research: Nature's beauty versus urban bustle: Chinese folk music influences food choices by inducing mental imagery of different scenes
Journal: Appetite Volume 199, 1 August 2024, 107507
Date: May, 2024

Central Institute of Mental Health

Department of Psychology

Researcher: Benjamin R. Meagher

Title of Paper/Research: Socio-Ecological Attunement: Social Attitudes Influence the Detection of Affordances

Journal: Ecological Psychology, Volume 37, 2025 - Issue 1: The Social and the Ecological: Honoring Reuben Baron (Part I) Co editors: Bert H. Hodges and Kerry L. Marsh

Date: June, 2024

Michigan State University

Department of Communication

Researcher: Sue Lim, Ralf Schmälzle, Gary Bente

Title of Paper/Research: Artificial social influence via human-embodied AI agent interaction in immersive virtual reality (VR): Effects of similarity-matching during health conversations

Journal: arXiv Human-Computer Interaction (cs.HC)

Date: June, 2024

Institute of Heritage Science

National Research Council

“La Sapienza” University of Rome

Department of Science of Antiquities

Department of Psychology

„Alma Mater Studiorum” University of Bologna

Department of Classical Philology and Italian Studie

Department of Psychology

Researcher: M. Massidda, A. Bordignon, F. Fabbri, R. Nori, L. Piccardi, L. Travaglini, M. Veggi S. Pescarin

Title of Paper/Research: Towards an Experiment Planner for Cognitive Studies in Virtual Heritage Environments. A Pilot Study.

Journal: EUROGRAPHICS Workshop on Graphics and Cultural Heritage

Date: July, 2024

Psychology

University of Utah

Researcher: Maggie K. McCracken, Hunter C. Finney, Serena Yang, Bobby Bodenheimer, Sarah H. Creem-Regehr, Jeanine K. Stefanucci
Title of Paper/Research: Big Feet for Little People: Scaling Gap Affordance Judgments of Children and Adults with Virtual Feet
Journal: 2024 IEEE International Symposium on Mixed and Augmented Reality (ISMAR)
Date: October, 2024

Universidad Nebrija
Centro de Investigación Nebrija en Cognición (CINC), Department of Education
University of Kaiserslautern Landau
Center for Cognitive Sciencel
UiT The Arctic University of Norway
Center for Language, Brain and Learning (C-LaBL)

Researcher: Francisco Rocabado, Laís Muntini, Jorge Gonzlez Alonso, Jon Andoni Duabeitia
Title of Paper/Research: Weathering words: a virtual reality study of environmental influence on reading dynamics
Journal: Frontiers in Psychology
Date: October, 2024

University of Central Florida
Department of Psychology
Lawrence Technological University
Department of Psychology

Researcher: Sean Hinkle, Shayna Soares, Corey Bohil
Title of Paper/Research: Finger Tapping as a Behavioral Indicator of Presence in VR
Journal: PRESENCE: Virtual and Augmented Reality 1–16.
Date: December, 2024

Psychology

Università degli Studi della Campania
Department of Psychology
Neurological Unit of "Ospedali dei Colli"
Laboratory of Clinical Neuropsychology

Researcher: Tina Iachini, Mariachiara Rapuano, Francesco Ruotolo, Alessandro Iavarone, Sabrina Iuliano, Gennaro Ruggiero
Title of Paper/Research: Early Spatio-Temporal and Cognitive Deficits in Alzheimer's Disease
Journal: Journal of Clinical Medicine 2025, 14(2), 579
Date: January, 2025

Michigan State University
Department of Communication

Researcher: Hee Jung Cho, Sue Lim, Miriya Saenz, Ralf Schmälzle
Title of Paper/Research: Memory Inception through Gaze-Contingent Message Exposure: Using Virtual Reality to Study Media Influence
Journal: bioRxiv The Preprint of Biology
Date: January, 2025

University of Alberta
Department of Psychology

Researcher: Yue Chen, Weimin Mou
Title of Paper/Research: Disrupted orientation after path integration by absence of anticipated prevalent spatial views
Journal: Journal of Experimental Psychology: Learning, Memory, and Cognition
Date: January, 2025

Deutsches Zentrum für Psychische Gesundheit (German Center for Mental Health)

Partner Site Mannheim-Heidelberg-Ulm

Central Institute of Mental Health

Department of Addictive Behavior and Addiction Medicine

Central Institute of Mental Health

Center for Innovative Psychiatric and Psychotherapeutic Research (CIPP), Virtual Reality Lab

Friedrich-Alexander University Erlangen-Nürnberg (FAU)

Department of Psychiatry and Psychotherapy

Heilbronn University

UniTyLab, Faculty of Informatics

Researcher: Katharina Eidenmueller, Sabine Hoffmann, Kornelius Kammler-Sücker, Leonard Wenger, Massimiliano Mazza, Christiane Mühle, Manuel Stenger, Gerrit Meixner, Falk Kiefer, Bernd Lenz

Title of Paper/Research: Reactivity to Smoking Cues in a Social Context: Virtual Reality Experiment

Journal: JMIR Formative Research 2025

Date: January, 2025

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University of Leeds

School of Psychology, Faculty of Medicine and Health

University of South-Eastern Norway

National Centre for Optics, Vision and Eye Care, Faculty of Health and Social Sciences

Researcher: William E. A. Sheppard, Rachel O. Coats, Richard M. Wilkie, Rigmor C. Baraas

Title of Paper/Research: Monocular blur impairs heading judgements from optic flow

Journal: Sage Journals

Date: February, 2025

Psychology

Michigan State University

Department of Communication

Researcher: Ralf Schmälzle, Juncheng Wu, Sue Lim, Gary Bente
Title of Paper/Research: Inter-Subject Correlations of Pupillary Audience Responses: Decoding Visual Attention and Predicting Memory in a VR Media Setting
Journal: Journal of Media Psychology
Date: February, 2025

University of Campania Luigi Vanvitelli

Laboratory of Cognitive Science and Immersive Virtual Reality

Researcher: Tina Iachini, Francesco Ruotolo, Gennaro Ruggiero, Mariachiara Rapuano
Title of Paper/Research: Virtual Reality and Humanity Attribution: The Role of Interoceptive Bodily Awareness
Journal: 2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)
Date: March, 2025

University of Campania Luigi Vanvitelli

Laboratory of Cognitive Science and Immersive Virtual Reality

Researcher: Scila Nunziata, Renato Orti, Francesco Ruotolo, Gennaro Ruggiero, Tina Iachini
Title of Paper/Research: Feeling Across the Distance: The Interplay of Motor and Empathic Processes with Virtual Humans
Journal: 2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)
Date: March, 2025

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Psychology

Tongji University

Department of Geotechnical Engineering

Brown University

Department of Cognitive, Linguistic and Psychological Sciences

National Research Council Canada

The Hong Kong Polytechnic University

Research Centre for Smart Urban Resilience and Firefighting, Department of Building Environment and Energy Engineering

Researcher: Yuxin Zhang, Max Kinateder, Xinyan Huang, William H. Warren
Title of Paper/Research: Modeling competing guidance on evacuation choices under time pressure using virtual reality and machine learning
Journal: Expert Systems with Applications, Volume 262
Date: March, 2025

University of Alberta

Department of Psychology

Researcher: Zijian Zhang, Weimin Mou
Title of Paper/Research: Spatial Updating in Mixed Reality: From Environment-Stabilized to Body-Stabilized Process
Journal: SSRN
Date: March, 2025

University of Alberta

Department of Psychology

Researcher: Weimin Mou
Title of Paper/Research: Representing place locations and orientations in cognitive maps
Journal: Nature Reviews Psychology volume 4, pages347–360 (2025)
Date: April, 2025

Psychology

University of Alberta

Department of Psychology

Researcher: Zhichun Qi, Weimin Mou

Title of Paper/Research: Cognitive maps integrating locations but missing orientations in across-boundary environments.

Journal: Journal of Experimental Psychology: General

Date: April, 2025

Tsinghua University

Department of Psychological and Cognitive Sciences

The Future Laboratory and Academy of Arts & Design

Researcher: Linbo Qiu, Haipeng Mi, Xiaoang Wan

Title of Paper/Research: Robot or human musicians? The modulating role of perceived performer on how music influences food choices

Journal: Applied Psychology Health and Well-Being Volume17, Issue3, June 2025

Date: May, 2025

About WorldViz

Based in Santa Barbara, CA, **WorldViz VR** is a leading provider of immersive virtual reality solutions for research, training, and enterprise applications. With a track record of serving leading **academic institutions, government agencies, and Fortune 500 companies**, WorldViz VR's innovative software and hardware solutions enable groundbreaking advancements in **scientific research, education, and product development**.

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