

# LILIAN GARZA

MS

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## HUMAN FACTORS

## PROFESSIONAL PROFILE

### EDUCATION

	<b>UNIVERSITÄT ULM</b>	
<b>MS</b>	Cognitive Systems	2020
	<b>TEXAS A&amp;M UNIVERSITY</b>	
<b>BS</b>	Psychology	2018
	Minor: Neuroscience	

*Lilian Garza, M.S.* is a forensic human-factors scientist at Explico. Human factors is the scientific field of research dealing with the capabilities and limitations of people as they interact with systems made up of products, tools, technology, information, organizations, environments, and other people. As a scientist, she has experience analyzing how human attention, performance, perception (i.e. visual, auditory and tactile), and decision-making contribute to incidents. Her work draws on established human-factors theory—including how biases and human error—to evaluate real-world events with technical precision. She regularly examines how lighting, visibility, conspicuity, driver, pedestrian, and operator behavior and capabilities, and environmental cues influence human performance and situational awareness in transportation, occupational settings, and in slip/trips and falls.

Her background and education in cognitive systems and psychology includes extensive application of human factor principles. Across her casework, Lilian is known for translating complex human-factors science into concise, high-clarity technical writing. She approaches each case with a disciplined, evidence-driven methodology, ensuring that human capabilities, limitations, and environmental factors are accurately represented in the overall causal narrative.

### LICENSES & CERTIFICATIONS

SAE’s Accident Reconstruction Certificate Program  
OSHA 30-Hour General Industry  
WACH: NFSI walkway auditor certificate holder

## AREAS OF EXPERTISE

Trips, Slips, and Falls  
Driver Behaviors, Capabilities, and Limitations  
Industrial and Construction Machinery Operation and Safety  
Warning, Labeling, and Instructions

### AFFILIATIONS

Human Factors and Ergonomics Society  
Newsletter Editor for Extended Reality Technical Group  
SAE International  
American Society of Safety Professionals



## EXPERIENCE

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### Explico

2023 - Present

*Scientist*

*Associate Scientist*

2022

### Infosys Limited

2021 - 2022

*Senior Consultant*

### Texas A&M: Department of Psychology

2017

*Research Assistant*

## PEER-REVIEWER PUBLICATIONS

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Arndt, S. R., Garza, L., Phillips, K. B., & Figueroa Jacinto, R. (2024). Case Study: Can Deaf Truck Drivers Be Trained in a Reasonably Safe Manner; An Equal Employment Opportunity Commission Suit. Proceedings of the Human Factors and Ergonomics Society Annual Meeting, 0(0). <https://doi.org/10.1177/10711813241275933>.

## RELEVANT COURSEWORK

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UC Berkeley's Center for Occupational and Environmental Health Program 2025 - 225 contact hour

## MISCELLANEOUS

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Fluent in English, Spanish and Intermediate in German

## PRESENTATIONS & CONFERENCES

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**Co-Presenter.** Guest Lecturer at Lawrence Technical University regarding Human Factors in Forensics (BME 4093 Lecture)

**Co-Presenter.** Figueroa Jacinto, R., Kappler, E., Petroskey, K., Arndt, S., & Leipold, T. (2022). Naturalistic Observations of Human Driving Perceptions and Vehicle Kinematics at Stop Sign-Controlled Intersections. Proceedings of the Human Factors and Ergonomics Society Annual Meeting 2022, 66(1).

## MS

**Presenter.** Kappler, E., Figueroa Jacinto, R., & Arndt, S. (2022, September). Evaluation of Visual Acuity and Perceptual Field of View Using the Varjo XR-3 Headset in a Virtual Environment. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 66, No.1, pp. 2193-2197). Sage CA: Los Angeles, CA: SAGE Publications.

**Presenter of interactive sessions.** Spain, R., Bailey S.K., Goldberg, B., Sail, R., Carmody, K., Ficke, C., ... & Bond, A. (2022, September). Me and My VE 2022: Human Factors Applications Using Virtual Reality, Mixed Reality, and Virtual Environments. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 66, No. 1, pp. 2188-2192). Sage CA: Los Angeles, CA: SAGE Publications.

## PROFESSIONAL DEVELOPMENT

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### OSHA

*Lock-out, Tag-out*

### Society of Automotive Engineers

*Introduction to Brake Control Systems: ABS, TCS, and ESC, SAE course Certificate*

*Apply Automotive EDR Data to Traffic Crash Reconstruction, Washington D.C., April 23-25, 2024*

*Vehicle Crash Reconstruction: Principles and Technology SAE course Certificate*

*Accident Reconstruction: Autonomous Vehicle & ADAS SAE course Certificate*

*The Fundamental of Vehicle Dynamics SAE course Certificate*

*Driver Distraction from Electronic Devices: insights and implications SAE course Certificate*

### Driver Research Institute

*2024 User Forum, hosted by Dr. Jeffrey Muttart, Long Beach, CA, February 17-19, 2024*