Lucrezia Lucchi

CONTACT

llucchi@asu.edu
(980) 474-7168
LinkedIn | ASU

EDUCATION

Psychology, PhD   *2024 - present*
Arizona State University (Tempe, AZ)
Human Movement Sciences, MSc   *2021 - 2025*
Rijksuniversiteit Groningen (Groningen, The Netherlands)
Exercise Physiology, BSc   *2017 - 2020*
University of Miami (Coral Gables, FL)

RESEARCH ACTIVITY

Graduate Research Associate - Department of Psychology   *Aug 2024 - present*
Arizona State University (Tempe, Arizona)
Advisors: Dr. Polemnia Amazeen, Dr. Jamie Gorman

> Designed and executed a team-interaction study to assess the influence of emotion in AI feedback on collaborative performance, communicative influence, and shared physiological dynamics. Developed & implemented protocols for acquiring cardiac and electrodermal activity data using Biopac and Acqknowledge systems; including equipment setup & calibration, data processing, and analysis of team physiological synchrony.

Graduate Researcher - Faculty of Behavioral & Social Sciences   *Aug 2023 - June 2024*
Rijksuniversiteit Groningen (Groningen, The Netherlands)
Advisors: Dr. Ralf Cox, Dr. Harjo de Poel

> Conducted Master's thesis on how fractal scaling of upper-body motion of readers varies with comprehension and subjective experiences of texts; processing and nonlinear time series analysis of upper-body movement and gaze step data. Designed & executed an experiment exploring associations between embodied experiences of film-viewers, the temporal structure of cinematic visual activity, aesthetic emotions, and personality traits.

Undergraduate Research Assistant - Max Orovitz Laboratory   *July 2018 - May 2020*
University of Miami (Coral Gables, FL)
Advisor: Dr. Joseph Signorile

> Developed & executed a protocol collecting kinematic and electromyographic data to assess the reliability and validity of two linear position transducers for the five-times sit-to-stand test, with the aim of evaluating their possible implementation as a clinical tools for the accurate and accessible assessment of lower body power in older adults. Collaborated with graduate students to design and execute a wide variety of research protocols related to functional performance, strength, power, balance, proprioception, gait, and cognitive functioning for healthy older adults and Parkinson's disease patients.

RELEVANT TRAINING

Nonlinear Methods (NLM) for Psychological & Social Sciences Workshop   *July 2023*
Leuphana University (Lüneburg, Germany)

> Gained expertise in fractal analysis, phase-space reconstruction, recurrence analysis, and convergent cross mapping by engaging in practical exercises with simulated datasets.

Howard Hughes Medical Institute (HHMI) Laboratory courses   *Sep 2017 - May 2018*
University of Miami (Coral Gables, FL)

> Developed genetically modified yeast; designed and implemented 3D printed microfluidic platforms to quantify the deleterious impact of silencing the Sir2 gene on the growth rate and chronological lifespan of *S. cerevisiae* in various media environments. Optimized and traced bodipy-loaded nanoparticles in sea urchin embryos to evaluate the impact of environmentally significant temperature fluctuations on the development of *L. variegatus*.

PUBLICATIONS

Landfair, J. T., Obregon, L. S., **Lucchi, L.,** & Amazeen, P. G. (2025). *Advancing Turvey's Legacy: Exploring Individual Differences in Attractor Dynamics Using Bimanual Coordination Tasks.* Ecological Psychology, 37(4), 353-364.

Cherup, N. P., Strand, K. L., **Lucchi, L.,** Wooten, S. V., Luca, C., & Signorile, J. F. (2020). *Yoga Meditation Enhances Proprioception and Balance in Individuals Diagnosed With Parkinson's Disease.* Perceptual and motor skills, 128(1), 304-323.

Strand, K. L., **Lucchi, L**., Copo, T. G., Cherup, N. P., & Signorile, J. F. (2019). *Optimal loads for power in older men and women using plate-loaded resistance machines.* Experimental Gerontology, 124, 110638.

PRESENTATIONS

Lucchi, L., Hao, R., Amazeen, P. G., Gorman, J. C. (2025). *Dynamic Interactive States in Student-AI Teams During Online Collaborative Problem-Solving.* [Poster Presentation]. Team and Multiagent Dynamics in Digital and Physical Realities; July 15-16, 2025; Montpellier, France.

Lucchi, L., Amazeen, P. G., Cimpian, M. C., Cox, R. F. A. (2025). *Fractal Scaling Of Upper-Body Motion During Silent Connected-Text Reading.* [Poster Presentation]. Human Movement Variability Conference; May 20, 2025; Omaha, Nebraska.

Lucchi, L., van Klaveren, L., Blau, J., Cox, R. F. A. (2024). *Fractal scaling of low-level perceptual variables in films and subjective aesthetic appraisals of viewers.* [Poster Presentation]. The XXII International Conference on Perception and Action (ICPA); June 25-28, 2024; Trondheim, Norway.

AWARDS

Graduate College Travel Award ($300)   *2025*
ASU Graduate Student Government Travel Grant ($950)   *2025*
William Mace Travel Award (€500)   *2024*
Presidential Merit Scholarship ($16,000/year)   *2017-2020*

AFFILIATIONS

International Society of Motor Control   *2023 - present*
International Society for Ecological Psychology   *2023 - present*

SKILLS

General Research: participant recruitment & scheduling, supervising & training research assistants, experimental design, preparation of ethical request documentation, writing research proposals and literature reviews, manuscript preparation, inferential statistics, time series analysis

Laboratory: Proprio5000 (reactive balance platform), Biodex System 4 (dynamometer), Biopac ECG and EDA, Noraxon EMG, Keiser pneumatic exercise machines (Keiser Air 420), Vyaire Oxycon Mobile, Vyaire Vyntus CPX Metabolic Cart, Kinect V2 (motion sensor), Kinovea, Vicon Nexus 2.7 (motion analysis), Anybody Modeling System (musculoskeletal modeling), motion energy analysis (MEA tool), Vernier Logger Pro (data acquisition), Tinkercad (3D printing), LabView (EMG & blood pressure bio-telemetry), Eye Tribe Eye Tracker, Lab Streaming Layer, Qualtrics, SONA (participant recruitment)

Programming & Software: RStudio, Matlab, Python, Jupyter Notebook, Netlogo, G*Power, Microsoft Office, Google Suite, SPSS Statistics, Obsidian, Zotero

CERTIFICATIONS

National Academy of Sports Medicine - Certified Personal Trainer
Yoga Alliance - Certified Yoga Teacher (RYT-200)
American Red Cross - Adult and Pediatric First Aid/CPR/AED
CITI - IRB: Social & Behavioral Research, Group 2; RCR: Graduate Student & Postdoctoral Researcher

PROFESSIONAL EXPERIENCE

Guest Advocate   *July 2020 - Jan 2021*
Target Corporation (Miami, FL)
    Improved team dynamics to minimize wait time for order pick-up and return-exchange services .
    Maintained accuracy and quality of guest service during high-volume pandemic traffic.
    Effectively coordinated set up, upkeep, and closing of front end and guest services.

Evaluator & Health Counselor   *Jan 2020 - Apr 2020*
Guardrails Prevention Initiative (Miami, FL)
    Developed exercise and nutrition programs based on body composition measures, blood pressure screenings, dietary recalls, and physical activity histories obtained one-on-one with clients. Used Healthsnap analytics software to generate health and lifestyle recommendations for University of Miami employees and encourage compliance to healthy standards of behavior.