

# Pin-Chun Chen, PhD

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## Appointments

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### University of Oxford

Oct 2023 - present

Marie Curie Postdoctoral Fellow

Advisor: Dr Bernhard Staeresina

Focus: Human iEEG, Single-Units, MEG sleep and memory reactivation

### University of Pennsylvania

July 2022 - Sep 2023

Postdoctoral Fellow

Advisor: Dr Brett Foster

Focus: episodic memory, sleep, iEEG, hippocampal ripples

## Education

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### University of California, Irvine

Sep 2017 - June 2022

PhD, Cognitive Science

Advisor: Dr Sara Mednick

Thesis: Heart-brain Interaction during Sleep Drives Sleep-dependent Memory Gains

Focus: sleep and memory, working memory, simultaneous EEG-fMRI, high-density EEG, electrical brain stimulation (tACS), pharmacology, autonomic-central coupling

### University of California, Irvine

Sep 2018 - June 2020

MSc, Statistics

Focus: machine learning, generalized linear-mixed-effects models, time series analysis

### National Chengchi University, Taipei, Taiwan

Sep 2013 - June 2017

BS, Psychology & BEd, Education

Advisor: Dr Chien-Ming Yang

Focus: chronic insomnia, acute insomnia, attentional biases, polysomnography

## Awards, Fellowships, & Grants

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2025	Trainee Professional Development Award (\$3,000), Society for Neuroscience
2025	Post-Doctoral Fellow Award, Cognitive Neuroscience Society
2024	Best Poster Presentation Award, MEG-UKI
2024-2026	Junior Research Fellowship (£10K), Wolfson College, University of Oxford
2024-2025	Wellcome Centre for Integrative Neuroimaging Seed Grant (£25K), University of Oxford
2023-2025	Marie Skłodowska-Curie Postdoctoral Fellowship (€221K), Horizon Europe
2019-2022	Undergraduate Research Grant Recipient Advisor (3 times, \$2,400), UCI
2022	AGS Recovery Fellowship (\$1,000), Associated Graduate Students, UCI
2022	Conference Travel Grant Award (\$250), Associated Graduate Students, UCI
2021	Grant Writing Fellowship (\$7,000), School of Social Sciences, UCI
2021	Cascade Mentoring Fellow (\$6,000), Graduate Division, UCI
2021	Jean-Claude Falmagne Research Award (\$3,000), UCI
2021	Renée Harwick Advanced Graduate Student Award (\$1,000), UCI
2021	Outstanding Scholarship Award (\$250), School of Social Sciences, UCI
2021	Grad Slam Semi-Finalist, Graduate Division, UCI (Honorary)
2020	Graduate Fellow (\$5,000), Division of Teaching Excellence and Innovation, UCI

2017 NVIDIA GPU Grant, NVIDIA Corporation (\$2,000)  
 2017 Government Scholarship to Study Abroad (\$32,000), Ministry of Education, Taiwan  
 2017 Honorary member of the Phi Tau Phi Scholastic Honor Society (Honorary)  
 2017 Outstanding Graduating Award (\$1,000), National Chengchi University

## Publications

\* co-first author; Google Scholar: <https://scholar.google.com/citations?user=zhIGL70AAAAJ&hl=en>

## JOURNAL ARTICLES

**Pin-Chun Chen**, Jenny Stritzelberger, Katrin Walther, Hajo Hamer, Bernhard Staresina (2025) Hippocampal ripples during offline periods predict human motor sequence learning. *Journal of Neuroscience*, e1502252025

Allison Morehouse, Katherine Simon, **Pin-Chun Chen**, Sara Mednick (2025) Heart Rate Variability During REM Sleep is Associated with Reduced Negative Memory Bias. *Front. Behav. Neurosci.*, 19.

Alessandra Shuster, Allison Morehouse, Elizabeth McDevitt, **Pin-Chun Chen**, Lauren Whitehurst, Jing Zhang, Negin Sattari, Tracy Uzoigwe, Ali Ekhlasi, Denise Cai, Katherine Simon, Niels Niethard, Sara Mednick (2025) REM Refines and Rescues Memory Representations: A New Theory. *Sleep Advances*, *SLEEP Advances*, zpaf004.

Alessandra Shuster, **Pin-Chun Chen**, Hamid Niknazar, Elizabeth McDevitt, Beth Lopour, and Sara Mednick (2024) Novel Electrophysiological Signatures of Learning and Forgetting in Human REM Sleep. *Journal of Neuroscience*, 44 (24) e1517232024

**Pin-Chun Chen\***, Jing Zhang\*, Julian Thayer, and Sara Mednick (2022) Understanding the roles of central and autonomic activity during sleep in the improvement of working memory and episodic memory. *Proceedings of the National Academy of Sciences*, 119(44), e2123417119.

**Pin-Chun Chen**, Katharine Simon, Negin Sattari, Lauren Whitehurst, Mohsen Naji, and Sara Mednick (2022) Autonomic Central Coupling during Daytime Sleep Differs between Older and Younger People. *Neurobiology of Learning and Memory*, 107646.

**Pin-Chun Chen**, Hamid Niknazar, William Alaynick, Lauren Whitehurst, and Sara Mednick (2021) Competitive dynamics underlie cognitive improvements during sleep. *Proceedings of the National Academy of Sciences*, 118(51), e2109339118.

**Pin-Chun Chen**, Negin Sattari, Lauren Whitehurst, and Sara Mednick (2021) Age-related loss in cardiac autonomic activity during a daytime nap. *Psychophysiology*, 58(7), e13701.

Dong Joo Kim, Joy Makdisi, Christina Regan, **Pin-Chun Chen**, Elizabeth Chao, Adam M. Rotunda (2021) Reconstruction of distal nasal defects using free cartilage batten grafting with secondary intention healing: a retrospective case series of 129 patients. *Dermatologic Surgery*, 47(1), 86-93.

Dong Joo Kim, Tze-An Yuan, **Pin-Chun Chen**, Feng Liu-Smith, Natasha Mesinkovska, Hege Sarpa (2021) Pediatric melanoma in the Hispanic population: an analysis of institutional and national data. *Pediatric Dermatology*, 38.5 (2021): 1102-1110

**Pin-Chun Chen**, Lauren Whitehurst, Mohsen Naji, and Sara Mednick. (2020b) Coupling of autonomic and central events during sleep boosts working memory in healthy adults. *Neurobiology of Learning and Memory*, 173, 107267.

**Pin-Chun Chen**, Lauren Whitehurst, Mohsen Naji, and Sara Mednick. (2020a) Autonomic activity during a daytime nap facilitates working memory improvement. *Journal of Cognitive Neuroscience*, 32 (10), 1963-1974

Lauren Whitehurst, **Pin-Chun Chen**, Mohsen Naji, and Sara Mednick. (2020) New directions in sleep and memory research: the role of autonomic activity. *Current Opinion in Behavioral Sciences*, 33, 17-24.

## UNDER REVIEW / IN PREP

Jing Zhang\*, **Pin-Chun Chen\***, Sara Mednick, Arielle Tambini (Under Review) Slow Oscillations Modulate Functional Brain Changes Supporting Working Memory. *bioRxiv*; doi: <https://doi.org/10.1101/2024.05.14.594161>

Sofie Jacobsen, Allison Morehouse, **Pin-Chun Chen**, Sara Mednick, Celia Kjærby (Under Review) Cardiac signatures of infraslow norepinephrine fluctuations predict memory consolidation during sleep.

Anjana Subramoniam, **Pin-Chun Chen**, Negin Sattari, Sara Mednick, Lauren Whitehurst (Under Review) Physiological sleep correlates of positive and negative affect in younger and older adults.

**Pin-Chun Chen**, Jenny Stritzelberger, Hajo Hamer, Bernhard Staresina (in prep) Cortical Signatures of Hippocampal Ripples in Human Sleep.

**Pin-Chun Chen** and Bernhard Staresina (in prep) Simultaneous EEG-MEG sleep recording and source localization reveal spatial temporal distribution of spindle activity during sleep.

Manqi Sha, **Pin-Chun Chen**, Yvonne Chen, Kathryn Davis, Isaac Chen, Brett Foster, Bernhard Staresina (in prep) Coupled sleep rhythms in the human hippocampus support memory consolidation.

## **Presentations**

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### **INVITED TALKS**

From brain waves to memories: Harnessing brain imaging and AI to read the inner workings of human memory. (2024, Nov) Seminar talk at the Mind, Brain and Behaviour (MBB) Cluster, Wolfson College, Oxford, UK

SLUMBER – Spatiotemporal Localization Using MEG-EEG for Brain-wide Events during NREM. (2024, Nov) Oxford Sleep Initiative Meeting, Oxford, UK

The central-autonomic seesaw of sleep-dependent episodic memory and working memory improvements. (2023, April) Seminar Series at Project TYRA (Taiwanese Young Researcher Association)

The central-autonomic seesaw of sleep-dependent episodic memory and working memory improvements. Institute of Neuroscience Seminar, National Yang Ming Chiao Tung University, Taipei, Taiwan (2022, Oct)

Competitive dynamics underlie cognitive improvements during sleep. Cognitive Sciences Graduate Student Presentation Bonanza, UCI, Irvine (2022, May)

Autonomic-Central Interactions During Sleep Strongly Impacts Sleep-Dependent Cognitive Plasticity. Eisai Inc (Virtual; 2021, May)

Neural mechanisms of sleep and memory consolidation. Guest lecture on Sleep & Memory at UCI, Virtual (Virtual; 2021, May)

Trust your heart during sleep in the fight against cognitive aging. Speaker at UCI Grad Slam (Virtual; 2021, Jan)

Understanding sleep disorders via subjective and objective assessments. Guest lecture on Sleep & Consciousness at UCI (Virtual; 2020, Nov)

Sleep interventions to boost memory. Guest lecture on Sleep & Consciousness at UCI (Virtual; 2020, Nov)

Cued memory reactivation during sleep influences skill learning. Guest lecture on Sleep & Memory at UCI (Virtual; 2020, May)

Autonomic-central couplings during sleep drives sleep-dependent working memory gains. Cognitive Sciences Graduate Student Presentation Bonanza, UCI, Irvine (2020, Jan)

Age-related sleep and cognitive declines: sleep disorders and etiology. Guest lecture on Sleep & Consciousness at UCI (2019, Nov)

### **TALKS AT SCIENTIFIC CONFERENCES**

Cortical signatures of hippocampal ripples in human sleep: from single-units, LFPs, to scalp EEG. Nanosymposium speaker at Society for Neuroscience, San Diego, CA, USA (Nov 2025)

Cortical signatures of hippocampal ripples in human sleep – can we decode hippocampal ripples from scalp EEG? Data Blitz at the 4th International Conference on Memory Replay, Cardiff, UK (May 2025)

Neural correlates of working memory improvement during sleep. Data Blitz at the Winter Memory Conference, Park City, UT, USA (Jan 2025)

Simultaneous EEG-MEG sleep recording and source localization reveal precise spatial temporal distribution of spindle activity during sleep. Data Blitz at the MEG-UKI Conference, Birmingham, UK (2024, Oct)

Hippocampal ripples during offline periods predict motor sequence learning. Data Blitz at the Annual Meeting of Cognitive Neuroscience Society, Toronto, Canada (2024, April)

Integrating measurements of the autonomic nervous system and heart-brain interactions with sleep and memory research. Speaker at the 3rd International Sleep Replay Workshop, Huntington Beach, CA, USA (2023, April)

Working and episodic memory vie for resources during sleep. Open-paper speaker at Learning & Memory 2023, Huntington Beach, CA, USA (2023, April)

The role of the autonomic nervous system in the science of sleep. Symposium speaker at the 35th Annual Meeting of the American Associated Professional Sleep Societies (Virtual; 2021, June)

The sleeping brain switches from frontal-subcortical working memory to hippocampal episodic memory processing during NREM sleep. Speaker at the 35th Annual Meeting of the American Associated Professional Sleep Societies (Virtual; 2021, June)

Competitive dynamics underlie cognitive improvements during sleep. Speaker at the 2021 Virtual Working Memory Symposium (Virtual; 2021, June)

The sleeping brain switches between working memory and long-term memory processing. Data blitz speaker at the Spring Conference at UCI Center for the Neurobiology of Learning and Memory, Irvine, CA (2021, May)

The sleeping brain switches between frontal-subcortical working memory to hippocampal episodic memory processing during NREM sleep. UCI Associated Graduate Student Virtual Symposium (Virtual; 2021, April)

Vagolytic effect of Zolpidem on Sleep-dependent Memory: A Trade-off between Working Memory and Long-term Memory. Speaker at the 2020 Neuromatch conference 3.0 (Virtual; 2020, Oct)

Unsupervised Learning of Sleep Stages from Polysomnography (PSG) Data. Speaker at the 2nd Annual Computational Data Neuroscience Symposium (Virtual; 2020, Oct)

Age-related Losses in Cardiac Autonomic Activity during a Daytime Nap. Speaker at the 2nd Annual Computational Data Neuroscience Symposium (Virtual; 2020, Oct)

Coupling of Autonomic and Central events during Sleep Boosts Working Memory in Healthy Young Adults. Speaker at the 2020 Virtual Working Memory Symposium (Virtual; 2020, June)

The Roles of Autonomic Activities during Sleep on Cognition. Speaker at the Spring Conference at UCI Center for the Neurobiology of Learning and Memory (2019, May)

## POSTERS AT SCIENTIFIC CONFERENCES

**Pin-Chun Chen**, Jenny Stritzelberger, Hajo Hamer, Bernhard Staresina (2025, Nov) Signatures of Hippocampal Ripples During Human Sleep: From Spiking Activity, LFP to Scalp EEG. Poster at the Human Single-Neuron Meeting 2025, Los Angeles, CA, USA

**Pin-Chun Chen**, Jenny Stritzelberger, Hajo Hamer, Bernhard Staresina (2025, April) Cortical Signatures of Hippocampal Ripples in Human Sleep. Poster at the Annual Meeting of Cognitive Neuroscience Society, Boston, MA, USA

**Pin-Chun Chen** and Bernhard Staresina (2024, Oct) Simultaneous EEG-MEG sleep recording and source localization reveal precise spatial temporal distribution of spindle activity during sleep. Poster at the MEG-UKI Conference, Birmingham, UK

**Pin-Chun Chen**, Jenny Stritzelberger, Hajo Hamer, Bernhard Staresina (2024, April) Hippocampal ripples during offline periods predict motor sequence learning. Poster at the Annual Meeting of Cognitive Neuroscience Society, Toronto, Canada

**Pin-Chun Chen**, Jing Zhang, Arielle Tambini, Sara Mednick (2022, June) How do Slow Oscillation and Vagal Activity Support Working Memory? An EEG/fMRI Study. Poster at the 35th Annual Meeting of the American Associated Professional Sleep Societies, Charlotte, NC, USA

**Pin-Chun Chen**, Lauren Whitehurst, Hamid Niknazar, William Alaynick, Lauren N. Whitehurst, and Sara Mednick (2021, Aug) Competitive dynamics underlie cognitive improvements during sleep. Poster at the 41st Annual Conference of North America Taiwanese Professors' Association (Virtual)

**Pin-Chun Chen**, Lauren N. Whitehurst, Hamid Niknazar, William A Alaynick, Lauren N. Whitehurst, and Sara C. Mednick (2021, April) The sleeping brain switches between working memory and long-term memory processing. Poster at the Women in STEM Symposium 2021 (Virtual)

**Pin-Chun Chen**, Lauren N. Whitehurst, Mohsen Naji, and Sara C. Mednick (2020, Aug) Age-related changes in central autonomic couplings during sleep. Poster at the 34th Annual Meeting of the American Associated Professional Sleep Societies (Virtual)

**Pin-Chun Chen**, Lauren N. Whitehurst, Mohsen Naji, and Sara C. Mednick (2019, Sep) Coupling of autonomic and central events during sleep boosts working memory in healthy young adults. Poster at the Annual Meeting of the World Sleep Congress, Vancouver, BC, Canada

**Pin-Chun Chen**, Negin Sattari, Lauren N. Whitehurst, and Sara C. Mednick (2019, June) Parasympathetic activity during sleep, but not wake, facilitates working memory improvement: A comparison of young and older adults. Poster at the Annual Meeting of the World Sleep Congress, Vancouver, BC, Canada

**Pin-Chun Chen**, Lauren N. Whitehurst, Mohsen Naji, and Sara C. Mednick (2019, June) Coupling of autonomic and central events during sleep boosts working memory in healthy young adults. Poster at the 33<sup>rd</sup> Annual Meeting of the American Associated Professional Sleep Societies, San Antonio, TX, USA

**Pin-Chun Chen**, Lauren N. Whitehurst, Mohsen Naji, and Sara C. Mednick (2018, April) A daytime nap facilitates working memory in healthy young adults. Poster at the International Conference on Learning & Memory 2018, Huntington Beach, CA, USA

**Pin-Chun Chen**, Ya-Wen Jan, and Chien-Ming Yang (2016, June). Discrepancy between subjective and objective actigraphic sleep estimation for individuals with low and high sleep vulnerability. Poster at the 30<sup>th</sup> Annual Meeting of the American Associated Professional Sleep Societies, Denver, CO, USA

## MENTEE-LED PRESENTATIONS

Alessandra Shuster, **Pin-Chun Chen**, Hamid Niknazar, Elizabeth McDevitt, Beth Lopour, Sara Mednick (2024, Dec) REM Alpha Bursts predict Hippocampal-Dependent Forgetting. Poster at the 4th International Sleep Replay Workshop (Virtual)

Manqi Sha, **Pin-Chun Chen**, Yvonne Chen, Kathryn Davis, Isaac Chen, Brett Foster, Bernhard Staesina (2024, Dec) Coupled Sleep Rhythms in Human Hippocampus Support Memory Consolidation. Poster at the 4th International Sleep Replay Workshop (Virtual)

Allison Morehouse, Katharine Simon, Jing Zhang, **Pin-Chun Chen**, Lauren Whitehurst, Sara Mednick (2023, April) Does cardiac autonomic variation across sleep stages differentially impact emotional and neutral memory consolidation? Poster at Learning & Memory 2023, Huntington Beach, CA, USA

Alessandra Shuster, **Pin-Chun Chen**, Hamid Niknazar, Sara Mednick (2023, April) Identifying Novel Markers of Memory in REM Sleep. Poster at the International Conference on Learning & Memory 2023, Huntington Beach, CA, USA

Anjana Subramoniam, **Pin-Chun Chen**, Sara Mednick, Lauren N. Whitehurst (2022, June) Slow oscillation power and heart rate variability during sleep predicts next-day subjective sleepiness in healthy young adults. Poster at the 35th Annual Meeting of the American Associated Professional Sleep Societies, Charlotte, NC, USA

Ash Arumugam, Spencer Mair, Jing Zhang, **Pin-Chun Chen** (2022, May) Role of Sex Hormones and Sleep on Anxiety Levels. Poster at the 2022 UCLA Psychology Undergraduate Research Conference.

Shreya Cho, Kevin Sam, Jing Zhang, **Pin-Chun Chen** (2022, May) The Interaction Between Dream Recall, Declarative Memory, and Sex Hormones. Poster at the 2022 UCLA Psychology Undergraduate Research Conference.

Cassandra Delvey and **Pin-Chun Chen** (2018, Nov) Central Autonomic Couplings During Sleep Can Predict Sleep-Induced Working Memory Improvement. Poster at the 2018 Southern California Conferences for Undergraduate Research.

Mathew Bayati and **Pin-Chun Chen** (2018, Nov) Age Related Changes in Central Autonomic Couplings During Sleep. Poster at the 2018 Southern California Conferences for Undergraduate Research.

## Mentoring

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### PhD Research

- 2023- **Manqi Sha**, PhD student analyzing intracranial EEG data on sleep and memory, poster presentation at International Sleep Replay Workshop 2024 and CNS 2025
- 2022- **Allison Morehouse**, PhD student analyzing HRV and Autonomic-Central Events on sleep and memory, poster presentation at Learning & Memory 2023, manuscript published
- 2020- **Anjana Subramoniam**, PhD student analyzing large-scale heart-rate-variability and sleep EEG data, poster presentation at SLEEP 2022, manuscript under review
- 2020- **Alessandra Shuster**, PhD student analyzing EEG activity during REM, poster presentation at Learning & Memory 2023, manuscript published on Journal of Neuroscience

### PhD Evaluation Committee

- 2025- **Saadiyah Mayet**, PhD student | Supervisor: Mark Woolrich  
Department of Health Data Science, University of Oxford

### Undergraduate Research

- 2018-2022 **Ashley Chen**, undergraduate, UCI Summer Undergraduate Research Program (SURP)
- 2021-2022 **Ash Arumugam**, undergraduate, UCI Summer Undergraduate Research Program (SURP),  
UCLA Psychology Undergraduate Research Conference (PURC)
- 2021-2022 **Spencer Mair**, undergraduate, UCI Summer Undergraduate Research Program (SURP),  
UCLA Psychology Undergraduate Research Conference (PURC)
- 2020-2022 **Shreya Cho**, undergraduate, UCI Summer Undergraduate Research Program (SURP),  
UCLA Psychology Undergraduate Research Conference (PURC)
- 2020-2022 **Kevin Sam**, undergraduate, UCI Summer Undergraduate Research Program (SURP),  
UCLA Psychology Undergraduate Research Conference (PURC)
- 2018-2021 **Angelica Busciglio**, undergraduate, undergraduate thesis mentee, UCI 2020 Order of Merit Award,  
UCI Summer Undergraduate Research Program (SURP)
- 2018-2020 **Nancy Liu**, undergraduate
- 2018-2020 **Myca Cabuay**, undergraduate research
- 2017-2020 **Mathew Bayati**, undergraduate, undergraduate thesis mentee, Southern California Conferences for Undergraduate Research
- 2017-2019 **Suyeon Hwang**, undergraduate research
- 2017-2019 **Cassandra Delvey**, undergraduate, undergraduate thesis mentee, UCI 2019 Honors Thesis Award,  
UCI Summer Undergraduate Research Program (SURP)

## Academic Service

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### Peer Review & Grant Reviewing

#### Journal Reviewer:

Current Biology, PNAS, eLife, Progress in Neurobiology, Applied Psychophysiology and Biofeedback, Biological Psychology

#### Grant Reviewer:

NSF Cognitive Neuroscience Grants

## Leadership, Outreach & Inclusion

2025–2027	Outreach & Training Committee, Cognitive Neuroscience Society (CNS)   support the society's outreach and training missions; coordinate engagement initiatives with the DEI Committee and CNS Trainee Association; contribute to policy development, advocacy, and international collaboration.
2025-2026	Global Scholars Committee, Oxford Centre for Integrative Neuroimaging (OxCIN)   supported the Global Scholars programme, which builds links with MRI researchers in the Global South; served at scholar selection panels, hosted OxCIN United talks, coordinated the annual symposium.
2025-2026	Early-Career Researcher Committee, Department of Experimental Psychology, University of Oxford   contributed to policy discussions, early-career researcher support, and events organisation.
2025-2026	Visiting Scientist, Pride in STEM 'STEM for Queer Youth' Pilot Project, Swindon   delivered interactive STEM workshops for LGBTQ+ youth, promoting inclusion and visibility in science.
2024-2025	Coordinator, Mind, Brain and Behaviour Cluster, Wolfson College, Oxford   led event planning and researcher networking activities.
2020-2021	Transitioning Online Teaching Fellow, Teaching Excellence and Innovation, UCI   supported inclusive online teaching and curriculum design during pandemic transitions.
2020	Colloquium Transcriber, Department of Cognitive Sciences, UCI   produced accessible transcripts
2018-2019	Graduate Student Panellist, Social Science Academic Resource Center, UCI   advised undergraduates on academic and career pathways.
2016	Coordinator, Annual Meeting, Taiwan Association of Clinical Psychology   managed logistics and programming for national clinical psychology conference.

## Mentoring & Consulting

2024-2026	Graduate Students Advisor, Wolfson College, University of Oxford   academic and career mentorship
2025-2026	Mentor, Project Tyra Overseas Graduate School Application Guidance Program   supported Taiwanese students from marginalized backgrounds in graduate school applications, helping to increase access to international academic opportunities.
2021-2022	Writing Workshop Leader, Department of Cognitive Sciences, UCI   led workshops to enhance graduate students' scientific writing skills
2019-2021	Statistical Consultant, School of Medicine, UCI   advised faculty and students on statistical methods.
2019-2020	First-Year Graduate Student Mentor, Department of Cognitive Sciences, UCI   supported new graduate students during academic transition.
2015-2017	Peer Tutor, National Chengchi University   tutored undergraduates in psychology and statistics.

## Teaching

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### Lecturer

Probability and Statistics in Psychology II, 2021, UC Irvine

### Tutorials Instructor

Behavioural Neuroscience, 2025, University of Oxford

**Guest Lecturer**

Sleep & Consciousness, 2019-2021, UC Irvine

**Lab Instructor & Teaching Assistant**

Cognitive Neuroscience EEG Practical, 2023, University of Oxford (with Dr. Staresina)

Probability and Statistics I & II, 2021, UC Irvine (with Dr. Jeff Rouder & Dr. Alex Etz)

Advanced Experimental Psychology, 2019, UC Irvine (with Dr. Aaron Bornstein)

Computer-Based Research in Social Science, 2018, UC Irvine (with Dr. Paul Shirey)

Basic Statistics, 2020, UC Irvine (with Dr. Lee Kucera)

Introduction to Biostatistics, 2020, UC Irvine (with Dr. Brigitte Baldi)

Eye Movements and Cognition, 2016, National Chengchi University (with Dr. Jie-Li Tsai)

**Teaching Assistant**

Sleep & Consciousness, 2019-2021, UC Irvine (with Dr. Sara Mednick)

Language and the Brain, 2019, UC Irvine (with Dr. Greg Hickok)

Psych Fundamentals, 2019, UC Irvine (with Dr. Alex Bower)

**Certificate Programs**

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07/2025	Neuromatch Academy Deep Learning Course, Neuromatch Academy
07/2024	Google Business Intelligence Professional Certificate, Google
08/2021	Preparing for a Faculty Career Certificate Program, University of California, Irvine, Irvine, CA
08/2021	Mentoring Excellence Program, University of California, Irvine, Irvine, CA
06/2021	Cascading Mentorship Certificate, University of California, Irvine, Irvine, CA
03/2021	Public Speaking Certification, University of California, Irvine, Irvine, CA
01/2021	Certificate in Teaching Excellence, University of California, Irvine, Irvine, CA
08/2020	Certificate in Course Design, University of California, Irvine, Irvine, CA
08/2020	Certificate in Remote Instruction, University of California, Irvine, Irvine, CA