

# 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 Staesina  
 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      | 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 (£15K), 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

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\* co-first authors; Google Scholar: <https://scholar.google.com/citations?user=zhIGL70AAAAAJ&hl=en>

### UNDER REVIEW / IN PREP

**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.

Sofie Jacobsen, **Pin-Chun Chen**, Allison Morehouse, Sara Mednick, Celia Kjærby (in prep) Memory-modulatory abilities of heart rate fluctuations and norepinephrine coupling in sleep.

**Pin-Chun Chen**, Jenny Stritzelberger, Hajo Hamer, Bernhard Staresina (Under Review) Hippocampal ripples during offline periods predict human motor sequence learning. *bioRxiv*; doi: <https://doi.org/10.1101/2024.10.06.614680>

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

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.

### JOURNAL ARTICLES

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

Alessandra E. Shuster, Allison Morehouse, Elizabeth A. McDevitt, **Pin-Chun Chen**, Lauren N. Whitehurst, Jing Zhang, Negin Sattari, Tracy Uzoigwe, Ali Ekhlasi, Denise Cai, Katherine Simon, Niels Niethard, Sara C. 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*.

**Pin-Chun Chen**\*, Jing Zhang\*, Julian F. Thayer, and Sara C. 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 C. Simon, Negin Sattari, Lauren N. Whitehurst, Mohsen Naji, and Sara C. 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 A Alaynick, Lauren N. Whitehurst, and Sara C. 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 N. Whitehurst, and Sara C. 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. (2021b) 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 Atanaskova Mesinkovska, Hege Grande Sarpa. (2021a) Pediatric melanoma in the Hispanic population: an analysis of institutional and national data. *Pediatric Dermatology*, 38.5 (2021): 1102-1110

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

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

## 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

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, 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 Staresina (2024, Dec) Coupled Sleep Rhythms in Human Hippocampus Support Memory Consolidation. Poster at the 4th International Sleep Replay Workshop (Virtual)

Alison 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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### GRADUATE RESEARCH

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

### 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)

## Service

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### REVIEWING

Current Biology, PNAS, eLife, Progress in Neurobiology, Applied Psychophysiology and Biofeedback  
NSF CogNeuro Grants

### PROFESSIONAL ACTIVITIES

- 2024 Coordinator for the International Sleep Replay Workshop (ISRW IV), Virtual
- 2024-2025 Coordinator for the Mind, Brain and Behaviour Cluster, Wolfson College, University of Oxford
- 2023-2025 Graduate Students Advisor, Wolfson College, University of Oxford
- 2021-2022 Writing Workshop Leader, Department of Cognitive Sciences, UCI
- 2020 Transitioning Online Teaching Fellow, Division in Teaching Excellence and Innovation, UCI
- 2020 CogSci Colloquium Transcriber, Department of Cognitive Sciences, UCI
- 2019-2021 Statistical Consultant, School of Medicine, UCI
- 2019-2020 First-Year Graduate Student Mentor, Department of Cognitive Sciences, UCI
- 2018-2019 Graduate Student Panel, Social Science Academic Resource Center, UCI
- 2016 Coordinator for the Annual Meeting, Taiwan Association of Clinical Psychology
- 2015-2017 Peer Tutor for Psychology and Statistics, National Chengchi University

## Teaching

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2021	Instructor of Record, Probability and Statistics in Psychology II, UC Irvine
2020-2021	Lab Instructor/ Teaching Assistant, Probability and Statistics in Psychology, UC Irvine
2020	Lab Instructor/ Teaching Assistant, Introduction to Biostatistics, UC Irvine
2020	Lab Instructor/ Teaching Assistant, Basic Statistics, UC Irvine
2019	Teaching Assistant, Language and the Brain, UC Irvine
2019	Teaching Assistant, Psych Fundamentals, UC Irvine
2019-2021	Guest Lecturer/ Teaching Assistant, Sleep & Consciousness, UC Irvine
2019	Lab Instructor/ Teaching Assistant, Advanced Methods in Experimental Psychology, UC Irvine
2018	Lab Instructor/ Teaching Assistant, Computer-Based Research in Social Science, UC Irvine
2016	Teaching Assistant, Introduction to Eye Movements and Cognition, National Chengchi University

## Media Spotlight

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Soc sci shout out: Pin-Chun Chen, cognitive sciences Ph.D. '22. UCI News. May 31, 2022.

<https://www.socsci.uci.edu/newsevents/news/2022/2022-05-31-pin-chun-chen-shout-out>

Pin-Chun Chen, UCI cognitive sciences graduate student, studies how your brain stays busy while you snooze

UCI News. November 2, 2021. <https://www.socsci.uci.edu/newsevents/news/2021/2021-11-02-pin-chun-chen-cog-sci.php>

UCI-led study is first to find that long- and short-term memory vie for brain space. UCI News. December 14, 2021.

<https://news.uci.edu/2021/12/14/uci-led-study-is-first-to-find-that-long-and-short-term-memory-vie-for-brain-space/>

Pin-Chun Chen named one of two Outstanding Scholar award recipients in social sciences. UCI News. June 1,

2021. <https://www.socsci.uci.edu/newsevents/news/2021/2021-06-01-pin-chun-chen-outstanding-scholar.php>

## Certificate Programs

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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

## References

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Dr. Bernhard Staesina

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