

Louise M. Ince, PhD

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Division of Pharmacology & Toxicology
College of Pharmacy
University of Texas at Austin
107 W Dean Keeton St BME 3.513B
Austin, TX, 78712

Education and Training

- 01/21 - [Research Scientist, Neuroimmunology](#) *The University of Texas at Austin, TX, USA*
Lab: Dr. Laura Fonken
- 06/15 - 12/20 [Postdoctoral Researcher, Immunology](#) *Université de Genève, Geneva, Switzerland*
Lab: Prof. Christoph Scheiermann *Ludwig-Maximilians-Universität, Munich, Germany*
- 09/11 - 03/15 [PhD, Neuroscience](#) *The University of Manchester, UK*
Advisors: Prof. Andrew Loudon, Prof. David Ray & Prof. Julie Gibbs
- 09/10 - 08/11 [MRes, Integrative Biology](#) *The University of Manchester, UK*
- 09/07 - 06/10 [BSc \(Hons\), Cognitive Neuroscience & Psychology](#) *The University of Manchester, UK*

Research Grants

Current

- 2022- NIH (NIA) R01 PI: Dr. Laura Fonken Total award: \$3,007,925
[Role: Co-Investigator](#)
'Disrupted circadian regulation of cell migration at CNS-immune interfaces in aging and Alzheimer's disease' R01AG078758

Completed

- 03/20-03/21 Novartis Foundation PI: Prof. Christoph Scheiermann CHF 60,000
[Role: Key Personnel](#)
'Optimizing immunization responses against Hepatitis A by circadian timing'

Honors and Awards

- 2024 **The University of Texas at Austin, Office of Postdoctoral Affairs** Best Poster, Postdoc Appreciation Week Research Symposium
- 2024 **The University of Texas at Austin, College of Pharmacy** Best Poster (staff scientist), Pharmacy Research Excellence Day
- 2023 **The University of Texas at Austin, Institute for Neuroscience** Best Poster, annual retreat
- 2022 **Texas Society for Circadian Biology & Medicine** 2nd place Poster Prize, annual meeting
- 2021 **BrightFocus Foundation**
Alzheimer's Fast Track Mock Grant Award winner, team 'Therapeutic Interventions'
- 2018 **Salk Institute/Fondation Ipsen/Science**
Travel award (Symposium on Biological Complexity, Salk Institute)
- 2018 **Society for Research on Biological Rhythms**
Vanda Pharmaceuticals Research Merit Award (& travel grant)
- 2017 **Immunity** Journal cover, January edition
- 2014 **British Society for Neuroendocrinology** Travel award (SRBR conference)

- 2014 **British Society for Immunology** Travel award (SRBR conference)
- 2014 **Society for Endocrinology** Travel award (British Endocrine Symposium)
- 2014 **Neuroscience Research Institute** Top-up funds for public engagement activities
- 2014 **Society for Research on Biological Rhythms**
Reset Therapeutics Research Merit Award (& travel grant)
- 2014 **Society for Research on Biological Rhythms** 2nd place SRBR 2014 Logo Competition
- 2013 **UK Clock Club** Best Poster, winter meeting
- 2013 **Society for Endocrinology** Travel award (EBRS congress)
- 2013 **Society for Research on Biological Rhythms**
Travel Fellowship (Vanderbilt Chronobiology Summer School)
- 2013 **Neuroscience Research Institute** Public Engagement Grant

Publications

Google scholar: <http://papers.ince.live/>

* co-first authorship, # corresponding authorship

Under review/In revision

- 1) **Ince LM**, Darling JS, Manem K, Prabhakar A, Chan E, Chen R, Gaudet AD, Fonken LK. (under review) [Time-restricted feeding enhances sociability and reduces neuroinflammation in aged mice.](#)
- 2) Davis LK, **Ince LM**, Gullapalli S, Fonken LK. (under review) [Neuroimmune and behavioral changes elicited by maternal immune activation in mice are ameliorated by early postnatal immune stimulation.](#)

Journal articles

- 1) Wyse C, Rudderham L, Nordon E, **Ince L**, Coogan A, Lopez L. (2024) [Circadian variation in the response to vaccination: a systematic review and evidence appraisal.](#) *Journal of Biological Rhythms*. doi: 10.1177/07487304241232447
- 2) **Ince LM**, Darling JS, Sanchez K, Bell KS, Melbourne JK, Davis LK, Nixon K, Gaudet AD, Fonken LK. (2023) [Sex differences in microglia function in aged rats underlie vulnerability to cognitive decline.](#) *Brain, Behavior and Immunity*, 114:438-452. doi: 10.1016/j.bbi.2023.09.009
- 3) **Ince LM***, Barnoud C*, Lutes LK, Pick R, Wang C, Sinturel F, Chen C, de Juan A, Weber J, Holtkamp SJ, Hergenhan SM, Geddes-McAlister J, Ebner S, Fontannaz P, Meyer B, Vono M, Jemelin S, Dibner C, Siegrist C-A, Meissner F, Graw F, Scheiermann C. (2023) [Benefit of circadian clocks in adaptive immunity and vaccination responses.](#) *Nature Communications*, 14:476. doi: 10.1038/s41467-023-35979-2
- 4) Wang C, Barnoud C, Kizil B, Cenerenti M, Caffa I, Bill R, Liu Y, Pick R, Sun M, Garnier L, Gkoutidi OA, **Ince LM**, Holtkamp S, Fournier N, Michielin O, Speiser DE, Hugues S, Nencioni A, Pittet MJ, Jandus C, Scheiermann C. (2023) [Dendritic cells direct circadian anti-tumor immune responses.](#) *Nature*, 614:136-143. doi: 10.1038/s41586-022-05605-0
- 5) **Ince LM**. (2022) [Introduction to biological rhythms: a brief history of chronobiology and its relevance to parasite immunology.](#) *Parasite Immunology*, 44:e12905. doi: 10.1111/pim.12905
- 6) Holtkamp S, **Ince L**, Barnoud C, Schmitt M, Pilorz V, Sinturel F, Pick R, Jemelin S, Mühlstädt M, Boehncke W-H, Weber J, Laubender D, Philippou-Massier J, Chen C, Holtermann L, Vestweber D, Sperandio M, Schraml B, Halin C, Dibner C, Oster H, Renkawitz J, Scheiermann C. (2021) [Circadian clocks guide dendritic cells into skin lymphatics.](#) *Nature Immunology*, 22(11):1375-1381. doi: 10.1038/s41590-021-01040-x
- 7) Chen C, Weber J, Holtkamp SJ, **Ince LM**, de Juan A, Wang C, Lutes L, Barnoud C, Kizil B, Hergenhan SM, Salvermoser J, Lasch M, Deindl E, Schraml B, Baumjohann D, Scheiermann C. (2021) [Loss of direct](#)

- adrenergic innervation after peripheral nerve injury causes lymph node expansion through IFN- γ . *Journal of Experimental Medicine*, 218(8):e20202377. doi: 10.1084/jem.20202377
- 8) West AC, Mizoro Y, Wood SH, **Ince LM**, Iversen M, Jørgensen EH, Nome T, Sandve SR, Martin SAM, Loudon ASI, Hazlerigg DG. (2021) [Immunologic profiling of the Atlantic salmon gill by single nuclei transcriptomics](#). *Frontiers in Immunology*, 12:1480. doi: 10.3389/fimmu.2021.669889
 - 9) Sengupta S, **Ince L**, Sartor F, Borrmann H, Zhuang X, Naik A, Curtis A, McKeating J. (2021) [Clocks, viruses, and immunity: lessons for the COVID-19 pandemic](#). *Journal of Biological Rhythms*, 36:23-34. doi: 10.1177/0748730420987669
 - 10) **Ince LM**[#], Weber J, Scheiermann C.[#] (2019) [Control of leukocyte trafficking by stress-associated hormones](#). *Frontiers in Immunology*, 9:3143. doi: 10.3389/fimmu.2018.03143
 - 11) de Juan A, **Ince LM**, Pick R, Chen C, Molica F, Zuchtriegel G, Wang C, Zhang D, Druzd D, Hessenauer M, Pelli G, Kolbe I, Oster H, Prophete C, Hergenhan SM, Albrecht U, Ripperger J, Montanez E, Reichel CA, Soehnlein O, Kwak BR, Frenette PS, Scheiermann C. (2019) [Artery-associated sympathetic innervation drives rhythmic vascular inflammation of arteries and veins](#). *Circulation*, 140:1100-1114. doi: 10.1161/CIRCULATIONAHA.119.040232
 - 12) **Ince LM**^{*}, Zhang Z^{*}, Beesley S, Vonslow R, Saer B, Matthews L, Begley N, Gibbs JE, Ray D, Loudon A. (2019) [Circadian variation in pulmonary inflammatory responses is independent of rhythmic glucocorticoid signaling in airway epithelial cells](#). *FASEB Journal*, 33(1):126-139. doi: 10.1096/fj.201800026RR
 - 13) Caratti G, Poolman T, Hurst RJ, **Ince L**, Knight A, Krakowiak K, Durrington HJ, Gibbs J, Else KJ, Matthews LC, Ray DW. (2019) [Caveolin1 interacts with the glucocorticoid receptor in the lung but is dispensable for its anti-inflammatory actions in lung inflammation and *Trichuris muris* infection](#). *Scientific Reports*, 9(1):1-13. doi: 10.1038/s41598-019-44963-0
 - 14) Scheiermann C, Gibbs JE, **Ince L**, Loudon A. (2018) [Clocking in to immunity](#). *Nature Reviews Immunology*, 18:423-437. doi: 10.1038/s41577-018-0008-4
 - 15) He W, Holtkamp S, Hergenhan SM, Kraus K, de Juan A, Weber J, Bradfield P, Grenier J, Pelletier J, Druzd D, Chen C, **Ince LM**, Bierschenk S, Pick R, Sperandio M, Aurrand-Lions M, Scheiermann C. (2018) [Circadian expression of migratory factors establishes lineage-specific signatures that guide the homing of leukocyte subsets to tissues](#). *Immunity*, 49(6):1175-1190. doi: 10.1016/j.immuni.2018.10.007
 - 16) **Ince LM**^{*}, Pariollaud M^{*}, Gibbs JE. (2018) [Lung physiology and defense](#). *Current Opinion in Physiology*, 5:9–15. doi: 10.1016/j.cophys.2018.04.005
 - 17) Caratti G, Iqbal M, Hunter L, Kim D, Wang P, Vonslow R, Begley N, Tetley A, Woodburn J, Pariollaud M, Maidstone R, Donaldson I, Zhang Z, **Ince LM**, Kitchen G, Baxter M, Poolman T, Daniels D, Stirling D, Broucker C, Gonzalez F, Loudon A, Bechtold D, Rattray M, Matthews L, Ray D. (2018) [REV-ERB \$\alpha\$ confers circadian control to glucocorticoid action](#). *Journal of Clinical Investigation*, 128(10):4454-4471. doi: 10.1172/JCI96138
 - 18) Druzd D^{*}, Matveeva O^{*}, **Ince L**, Harrison U, He W, Schmal C, Herzel H, Tsang AH, Kawakami N, Leliavski A, Uhl O, Yao L, Sander LE, Chen C, Kraus K, de Juan A, Hergenhan SM, Ehlers M, Koletzko B, Haas R, Solbach W, Oster H, Scheiermann C. (2017) [Lymphocyte circadian clocks control lymph node trafficking and adaptive immune responses](#). *Immunity*, 46(1):120–132. doi: 10.1016/j.immuni.2016.12.011
 - 19) Yang N, Caratti G, **Ince LM**, Poolman TM, Trebble PJ, Holt CM, Ray DW, Matthews LC. (2014) [Serum cholesterol selectively regulates glucocorticoid sensitivity through activation of JNK](#). *Journal of Endocrinology*, 223(2):155-66. doi: 10.1530/JOE-14-0456
 - 20) Gibbs J, **Ince L**, Matthews L, Mei J, Bell T, Yang N, Saer B, Begley N, Poolman T, Pariollaud M, Farrow S, DeMayo F, Hussell T, Worthen GS, Ray D, Loudon A. (2014) [An epithelial circadian clock controls pulmonary inflammation and glucocorticoid action](#). *Nature Medicine*, 20(8):919-26. doi: 10.1038/nm.3599

21) **Kearney L** (2014) [Why have a flu jab every year?](#) *Biological Sciences Review*, 26(3):34-37

Book chapters

- 1) **Ince LM#**, Simpkins D, Gibbs JE. (2023) [Disrupted circadian rhythms and immune function](#). In: Nelson R. & Fonken L. (eds) *Biological Implications of Circadian Disruption: A Modern Health Challenge*. p256-284. doi: 10.1017/9781009057646.013
- 2) De Juan A, Druzd D, **Ince L**, Scheiermann C. (2016) [Regulation of immunity by the circadian clock](#). In: Gumz M. (eds) *Circadian Clocks: Role in Health and Disease*. p251-266. doi: 10.1007/978-1-4939-3450-8_9

Pre-prints

- 1) Gabb VC, **Ince LM**, Rudd S, Coulthard E. (2022) [Measuring circadian rhythms in patients with dementia: protocol for a scoping review](#). *medRxiv*, doi:10.1101/2022.06.06.22275886

Invited Talks

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|------|---|----------------------|
| 2024 | BioClock Academy | Virtual |
| | 'Chrono-immunology: how circadian rhythms shape immune responses' | |
| 2024 | Texas Society for Circadian Biology & Medicine (Annual Meeting) | College Station, USA |
| | 'Rhythms at the neuroimmune interface: a role for circadian rhythms in regulating neuroinflammation and behavior' | |
| 2024 | Rensselaer Polytechnic Institute (Department of Biology) | Troy, USA |
| | 'Neuroimmunology around the clock: the role of circadian rhythms in regulating immunity and behavior' | |
| 2023 | Binghamton University (Department of Psychology) | Binghamton, USA |
| | 'Neuroimmunology around the clock: the role of circadian rhythms in regulating immunity and behavior' | |
| 2023 | Harvard Medical School | Boston, USA |
| | (INCEPT: Interdisciplinary Neuroscience Colloquia of Extramural Postdoc Talks) | |
| | 'The microglial clock regulates daily rhythms in neuroimmune function and sickness behavior' | |
| 2023 | The University of California, Santa Cruz | Santa Cruz, USA |
| | (Molecular, Cellular, and Developmental Biology) | |
| | 'Neuroimmunology around the clock: circadian rhythms in immune function and its behavioral consequences' | |
| 2023 | The University of Pennsylvania (Chronobiology and Sleep Institute) | Philadelphia, USA |
| | 'Neuroimmunology around the clock: circadian rhythms in immune function and its behavioral consequences' | |
| 2022 | The University of California, Santa Cruz (Microbiology and Environmental Toxicology) | Virtual |
| | 'Circadian disruption: a public health challenge with negative consequences for neuroimmune function' | |
| 2022 | The University of Texas at Austin (Institute for Neuroscience) | Austin, USA |
| | 'The aging neuroimmune system – can circadian-based strategies improve cognition and healthspan?' | |
| 2022 | The University of Manchester (Division of Immunology, Immunity to Infection & Respiratory Medicine; Division of Neuroscience and Experimental Psychology) | Manchester, UK |
| | 'Circadian regulation of neuroimmune function: implications for aging, cognition, and behavior' | |
| 2022 | Society for Light Treatment and Biological Rhythms (SLTBR Annual Meeting) | Manchester, UK |
| | 'Circadian regulation of neuroimmune function: implications for cognition and behavior' | |
| 2022 | The University of Texas at Austin (Immunology Research Interest Group) | Austin, USA |
| | 'Circadian rhythms in neuroimmune function' | |

2020	The University of Texas at Austin (College of Pharmacy) 'Timing matters: daily rhythms in immune function'	Austin, USA
2020	European Biological Rhythms Society (Chronobiology of COVID-19 workshop) Discussion panel/trainee contributor	Virtual
2019	European Biological Rhythms Society (EBRS Biennial Meeting) 'Choreographing immunity: a role for the circadian clock'	Lyon, France
2019	Swiss Vascular Research Symposium (Annual Meeting) 'Diurnal variation in leukocyte trafficking and adaptive immune responses'	Lucerne, Switzerland
2019	Université de Genève (Department of Pathology & Immunology Annual Retreat) 'Circadian regulation of adaptive immunity'	Annecy, France
2018	University of Colorado Boulder (Sleep and Chronobiology Laboratory) 'Temporal variation in innate and adaptive immunity'	Boulder, USA
2018	Stanford University (Stanford Center for Sleep Sciences and Medicine) 'Temporal variation in innate and adaptive immunity'	Stanford, USA
2017	Collaborative Research Centre SFB914 (Annual Retreat): Trafficking of Immune Cells in Inflammation, Development, and Disease 'Circadian control of the adaptive immune response'	Obergurgl, Austria
2014	Ludwig-Maximilians-Universität (Walter Brendel Center for Experimental Medicine) 'Circadian rhythms in glucocorticoid signaling and pulmonary inflammation'	Munich, Germany

Conference Presentations

* oral presentations

Ince LM, Darling JS, Sanchez K, Bell KS, Melbourne JK, Davis LK, Nixon K, Gaudet AD, Fonken LK. (2024) Sex differences in microglia function in aged rats underlie vulnerability to cognitive decline. Austin, TX, USA: The University of Texas at Austin Postdoc Appreciation Week Research Symposium

Ince LM, Davis LK, Dabak AA, Gaudet AD, Fonken LK. (2024) Microglia -specific knockdown of the circadian clock gene Bmal1 increases motility and reduces anxiety-like behavior in mice. Columbus, OH, USA: Society for Behavioral Neuroendocrinology Annual Meeting

Ince LM, Darling JS, Sanchez K, Bell KS, Melbourne JK, Davis LK, Nixon K, Gaudet AD, Fonken LK. (2023) Sex differences in microglia function in aged rats underlie vulnerability to cognitive decline. Austin, TX, USA: The University of Texas at Austin Pharmacy Research Excellence Day

* **Ince LM**, Darling J, Manem K, Prabhakar A, Chen R, Chan E, Carlson ER, Sridhar S, Dabak AA, Fonken LK. (2023) Time-restricted feeding ameliorates age-associated neuroinflammation and social withdrawal in mice. Boulder, CO, USA: PsychoNeuroimmunology Research Society Annual Meeting

Ince LM, Darling J, Prabhakar A, Chen R, Carlson ER, Manem K, Sridhar S, Dabak AA, Fonken LK. (2023) Time-restricted feeding reduces neuroinflammation and improves social behavior in aged mice. Austin, TX, USA: The University of Texas at Austin, Institute for Neuroscience Annual Retreat

Ince LM, Darling J, Prabhakar A, Chen R, Carlson ER, Manem K, Sridhar S, Dabak AA, Fonken LK. (2022) Time-restricted feeding reduces neuroinflammation and improves social behavior in aged mice. Houston, TX, USA: Texas Society for Circadian Biology and Medicine Annual Meeting

Ince LM, Darling J, Prabhakar A, Chen R, Carlson ER, Manem K, Sridhar S, Dabak AA, Fonken LK. (2022) Time-restricted feeding reduces neuroinflammation and improves social behavior in aged mice. San Diego, CA, USA: Society for Neuroscience Annual Meeting

Ince LM, Davis LK, Greenough EK, Dabak AA, Manem K, Gaudet AD, Fonken LK. (2022) Clocks at the neuroimmune interface: diurnal rhythms in neuroinflammatory signaling are disrupted with aging and microglia-

specific Bmal1 deletion. Austin, TX, USA: The University of Texas at Austin Center for Molecular Carcinogenesis and Toxicology Annual Symposium

Ince LM, Davis LK, Greenough EK, Dabak AA, Manem K, Gaudet AD, Fonken LK. (2022) Clocks at the neuroimmune interface: diurnal rhythms in neuroinflammatory signaling are disrupted with aging and microglia-specific Bmal1 deletion. Amelia Island, FL, USA: Society for Research on Biological Rhythms (SRBR) Biennial Meeting

Ince LM, Davis LK, Greenough EK, Dabak AA, Manem K, Gaudet AD, Fonken LK. (2022) Clocks at the neuroimmune interface: diurnal rhythms in neuroinflammatory signaling are disrupted with aging and microglia-specific Bmal1 deletion. Austin, TX, USA: The University of Texas at Austin Pharmacy Research Excellence Day

* **Ince L**, Weber J, Pick R, Chen C-S, Holtkamp S, Hergenhan S, de Juan A, Scheiermann C. (2019) Mechanisms shaping rhythmic responses in adaptive immunity. Munich, Germany: German Society of Immunology (DGfI) Annual Meeting

* **Ince L**, Holtkamp S, Weber J, Hergenhan S, Chen C-S, de Juan A, Druzd D, He W, Scheiermann C. (2018) Orchestral manoeuvres in the light-dark: immune cell oscillations drive diurnal variation in adaptive immunity. Rehovot, Israel: Weizmann Institute of Science Timelines in Biology: From a Solo Recital to a Full Orchestra

Ince L, Chen C-S, de Juan A, Weber J, Druzd D, He W, Scheiermann C. (2018) Circadian regulation of adaptive immunity. Fribourg, Switzerland: Swiss Clock Club Annual Meeting

Ince L, Chen C-S, de Juan A, Weber J, Druzd D, He W, Scheiermann C. (2018) Circadian regulation of adaptive immunity. Wurzburg, Germany: German Clock Club Annual Meeting

* **Ince LM**, Chen C-S, de Juan A, Weber J, Druzd D, He W, Scheiermann C. (2018) Coordinated immune cell oscillations drive diurnal variation in adaptive immunity. Amelia Island, FL, USA: Society for Research on Biological Rhythms (SRBR) Biennial Meeting

Ince L, Chen C-S, de Juan A, Weber J, Druzd D, He W, Scheiermann C. (2018) Circadian regulation of adaptive immunity. San Diego, CA, USA: Salk Institute, Fondation IPSEN, and Science Annual Symposium on Biological Complexity

* **Ince LM**, Druzd D, He W, Chen C-S, Harrison U, Yao L, Kawakami N, Sander LE, Haas R, Scheiermann C. (2017) Circadian regulation of the adaptive immune response. Amsterdam, Netherlands: European Biological Rhythms Society (EBRS) Biennial Meeting

* **Ince L**, Druzd D, He W, Chen C-S, Harrison U, Yao L, Kawakami N, Sander LE, Haas R, Scheiermann C. (2017) Circadian control of the adaptive immune response. Munich, Germany: German Clock Club Annual Meeting

Ince L, Druzd D, He W, Chen C-S, Harrison U, Yao L, Kawakami N, Sander LE, Haas R, Scheiermann C. (2017) Circadian regulation of the adaptive immune response. Erlangen, Germany: German Society of Immunology (DGfI) Annual Meeting

* **Kearney LM**, Gibbs JE, Yang N, Farrow SN, Ray DW, Loudon ASI. (2014) Circadian resonance between adrenal glucocorticoid signals and the target cell clock is essential for normal immunological responses. Big Sky, MT, USA: Society for Research on Biological Rhythms (SRBR) Biennial Meeting

Kearney L, Gibbs J, Farrow S, Ray D, Loudon A. (2014) Increased lipopolysaccharide-induced neutrophilia in mice lacking the glucocorticoid receptor in bronchial epithelial (Clara) cells. Liverpool, UK: Society for Endocrinology British Endocrine Symposium (BES) Annual Meeting

Kearney LM, Gibbs JE, Farrow SN, Ray DW, Loudon ASI. (2013) Circadian rhythms and lung inflammation: a role for glucocorticoids. Manchester, UK: UK Clock Club Winter Meeting

Kearney LM, Gibbs JE, Farrow SN, Ray DW, Loudon ASI. (2013) Circadian rhythms and lung inflammation: a role for glucocorticoids. Manchester, UK: Faculty of Life Sciences Annual Research Symposium

Kearney LM, Gibbs JE, Farrow SN, Ray DW, Loudon ASI. (2013) Circadian rhythms and lung inflammation: a role for glucocorticoids. Nashville, TN, USA: Chronobiology Summer School

Kearney LM, Gibbs JE, Farrow SN, Ray DW, Loudon ASI. (2013) Circadian gating of the pulmonary response to inflammatory challenge: a role for glucocorticoids. Munich, Germany: European Biological Rhythms Society (EBRS) Biennial Meeting

Kearney LM, Gibbs JE, Farrow SN, Ray DW, Loudon ASI. (2013) Circadian rhythms and lung inflammation: a role for glucocorticoids. Manchester, UK: British Society for Neuroendocrinology Annual Meeting

NB: name change from Kearney to Ince in 2014

Teaching Experience

- 2022- Lecturer: Biological Clocks and Behavior (PSY332T), 'Biological Clocks in Immune Function'.
2023 Lecturer: Quantitative Engineering Physiology II (BME365S), 'Circadian Rhythms in Immunology'.
2022 PhD thesis midterm evaluator: Chiara Ciccone, The Arctic University of Norway.
2019-2020 Tutor: 'Chapitres choisis' ('chosen chapters') journal club elective for PhD students.
2016-2018 Instructor: postgraduate technical skills course (*in vivo* imaging & surgical skills).
2012-2014 Demonstrator: undergraduate wet lab classes (e.g., optometry, electrooculogram, molecular biology).
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Mentoring Experience

Graduate Students

Kate Davis Current Institute for Neuroscience PhD program, The University of Texas at Austin

Technicians

Emily Chan 2023 College of Pharmacy, The University of Texas at Austin

Undergraduates

Akanksha Acharya 2024- Present Neuroscience, The University of Texas at Austin
Dean's Scholar Honors Program

Alekhya Vattikuti 2024- Present Biology, The University of Texas at Austin

Sophia Martinez 2024- Present Chemistry, The University of Texas at Austin

Eleanor Johnson Summer 2024 Physics, Carleton College
Awarded Carleton College Career Center Funded Internship

Anusha Dabak 2021- 2024 Neuroscience, The University of Texas at Austin
Polymathic Scholars Honors Program
Best Undergraduate Poster: Pharmacy Research Excellence Day 2023
Currently: MD Program, The University of Texas Medical Branch Galveston

Krishi Manem 2021- 2023 Neuroscience, The University of Texas at Austin
Dean's Scholar Honors Program
Awarded Texas Institute for Discovery Education in Science Fellowship 2022
Best Undergraduate Abstract: Pharmacy Research Excellence Day 2023
Currently: MD Program, McGovern Medical School

Emmy Thomas	Summer 2023	Biomedical Science, The University of Texas Rio Grande Valley Leadership through Engagement for the Advancement of Diverse Educational Research (LEADER) Program 2023 Currently: PharmD Program, The University of Texas at Austin
Taylor West	Summer 2022	Biology, Jarvis Christian University Leadership through Engagement for the Advancement of Diverse Educational Research (LEADER) Program 2022 Currently: PharmD Program, The University of Texas at Austin

Review Activities

Grants: National Science Foundation (NSF) • Austrian Science Fund (FwF) • Netherlands Organization for Health Research and Development (ZonMw) • French National Agency for Research (ANR)

Journals: Applied Physiology, Nutrition, and Metabolism • Biology Letters • Brain, Behavior & Immunity • ERJ Open • Frontiers in Cellular and Infection Microbiology • Frontiers in Neuroscience • Frontiers in Psychiatry • Journal of Circadian Rhythms • Journal of Sleep Research • Neurobiology of Aging • PLoS Pathogens • Scientific Reports • Translational Neurodegeneration

Professional Memberships

Alzheimer's Association International Society to Advance Alzheimer's Research & Treatment (ISTAART) - Professional Interest Areas: Immunity and Neurodegeneration, Sleep and Circadian Rhythms, PIA to Elevate Early Career Researchers • Society for Research on Biological Rhythms (SRBR) • Society for Light Treatment and Biological Rhythms (SLTBR) • European Biological Rhythms Society (EBRS)

Media Features

2023 Media Interview: "Immunity is a Matter of Timing"

Diana Kwon, *Nautilus* – article on circadian rhythms in immune function

2023 Paper Highlight: "The best time to get vaccinated is when you're asleep, UT researcher finds"

Ryllie Lillibridge, *The Daily Texan* – feature on Ince et al. (2023) *Nature Communications*

2023 Trainee Spotlight: Immunity and Neurodegeneration PIA Newsletter Spring 2023

Service

Brain, Behavior, and Immunity: Special Issue - Guest Editor (Current)

Guest editor for special issue focused on "Sex as a critical variable in psychoneuroimmunology research".

Society for Light Treatment and Biological Rhythms (2022 - Present)

Board member (2022-present), member of the conference scientific committee (2023 & 2024).

Alzheimer's Association - ISTAART Immunity & Neurodegeneration Professional Interest Area (2022 - 2024)

Executive committee - postdoctoral member.

Co-host for webinar: 'Immunity & Neurodegeneration: Year in Review 2022'

Co-organizer and co-chair for webinar: 'Adaptive immunity in neurodegenerative diseases'.

Society for Research on Biological Rhythms - SRBR 2022 Logo Committee (2022)

Committee member for choosing logo & designing publicity material for biennial conference.

European Biological Rhythms Society - Trainee Development Day (2019)

Organizing committee member for the trainee development day which precedes the biennial EBRS conference.

[Society for Research on Biological Rhythms - Trainee Development Day \(2014\)](#)

Organizing committee member for the trainee development day which precedes the biennial SRBR conference.

[The University of Manchester - Life Sciences PhD Conference \(2013\)](#)

Organizing committee member for annual conference for local PhD students.

[The University of Manchester - Undergraduate Student Ambassador \(2009-2010\)](#)

Ambassador at interview days, welcoming applicants and families to The University of Manchester.

[The University of Manchester – Peer-Assisted Study Scheme Leader \(2009-2010\)](#)

Facilitated integration and exam preparation by hosting weekly group study sessions for 1st year undergraduates.

[The University of Manchester – Course Representative \(2007-2010\)](#)

Represented 'Cognitive Neuroscience & Psychology' cohort at annual staff-student liaison meetings (faculty level).

Outreach and Public Engagement

[Lee Elementary Lunch and Learn \(2024\)](#)

Discussed the science behind vaccination to a 5th grade class as part of the University of Texas at Austin Division of Pharmacology & Toxicology outreach program.

[Alzheimer's Association – Dementia Researcher Podcast/PIA to Elevate Early Career Researchers \(2022\)](#)

Interviewer/interviewee for relay podcast to promote Alzheimer's disease research and early career researchers.

[Society for Research on Biological Rhythms - Outreach Committee \(2019-2020\)](#)

Appointed in the first postdoc team to develop society outreach via Twitter (@SRBR_Outreach) and blog. I also coordinated a successful 'Ask Science' session on Reddit discussing #LockTheClock to end daylight savings time.

[Pint of Science \(2017 & 2018\)](#)

Pint of Science is a 3-day public engagement event held annually in 24 countries. I joined the Munich team as a local organizer in 2017 and became website manager and social media coordinator for Germany in 2018.

[Local Science Festivals \(2013 & 2014\)](#)

Obtained a Public Engagement Grant, designed a quiz app ('Are You a Lark or an Owl?') and activities to illustrate time zones and jet lag to a school-age/family audience. Organized teams of 2-3 to present at local science festivals.

[The Brain Bus \(2009-2012\)](#)

I participated in various school visits, museum stands, and train station stalls, often during Brain Awareness Week. We delivered table-top activities based around the senses ('Making Sense of Your Brain') to a family audience.

Professional Development

2024	AI in Molecular Biology & Biochemistry	The University of Texas at Austin, TX, USA
2023	Sex as a Biological Variable (SABV): A Primer	NIH, Virtual
2023	Understanding the Media: A Starter Guide for Scientists	SciLine / AAAS, Virtual
2022	Teaching Chronobiology	Society for Research on Biological Rhythms, Virtual
2022	Dynamics of Diversity	The University of Texas at Austin, TX, USA
2022	Mentoring Undergraduate STEM Researchers	The University of Texas at Austin, TX, USA
2022	Engaging IDEA(s)	The University of Texas at Austin, TX, USA
2021	Introduction to R for Biologists	The University of Texas at Austin, TX, USA
2017	German Language Level B1.1	Ludwig-Maximilians-Universität, Munich, Germany
2016	Young Female Leaders in Science	Max Planck Institute for Biochemistry, Munich, Germany
