

## Nicholas A. Steinmetz

Associate Professor, University of Washington  
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### Education

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| 2007 – 2014 | Ph.D., Neurosciences<br>Stanford University, Stanford, CA, USA<br>Supervisors: Prof. Tirin Moore and Prof. Kwabena Boahen        |
| 2003 – 2007 | Bachelor of Science and Engineering, Bioengineering, <i>summa cum laude</i><br>University of Pennsylvania, Philadelphia, PA, USA |

### Employment

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| 2025 – present | Associate Professor, Department of Neurobiology & Biophysics, University of Washington                                       |
| 2019 – 2025    | Assistant Professor, Department of Neurobiology & Biophysics, University of Washington                                       |
| 2017 – 2018    | Senior Research Associate, University College London, London, UK                                                             |
| 2014 – 2017    | Research Associate, University College London, London, UK<br>Supervisors: Prof. Matteo Carandini and Prof. Kenneth D. Harris |

### Other Appointments and Collaborations

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| 2026 – present | Adjunct Associate Professor, Department of Bioengineering, University of Washington |
| 2025 – present | Affiliate, Allen Institute for Neural Dynamics                                      |
| 2019 – present | <a href="#">International Brain Laboratory</a> member                               |
| 2017 – 2022    | Program Coordinator, Neuropixels Consortium                                         |

### Fellowships and Awards

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| 2022           | NSF CAREER award                                                                                                                                                                     |
| 2020           | Pew Biomedical Scholar                                                                                                                                                               |
| 2020           | Klingenstein-Simons Neuroscience Fellow                                                                                                                                              |
| 2019 – present | Simons Foundation Investigator                                                                                                                                                       |
| 2019 – 2022    | Next Generation Leader, Allen Institute for Brain Science                                                                                                                            |
| 2015 – 2018    | Postdoctoral Fellowship from the Human Frontier Sciences Program                                                                                                                     |
| 2016 – 2018    | Postdoctoral Fellowship from the Marie Curie Action of the EU                                                                                                                        |
| 2015           | Newton Postdoctoral Fellowship from the Royal Society (awarded)                                                                                                                      |
| 2011 – 2014    | Graduate Research Fellowship from National Science Foundation (NSF GRFP)                                                                                                             |
| 2009 – 2011    | Graduate Research Fellowship from the Stanford Center for Mind, Brain, and Computation, National Science Foundation, Integrative Graduate Education Research Traineeship (NSF IGERT) |
| 2006 – 2007    | Blair Fellowship for Undergraduate Research in Bioengineering/Biomedical Sciences from the University of Pennsylvania                                                                |
| 2005 – 2007    | University Scholars Fellowship for Undergraduate Research from the University of Pennsylvania                                                                                        |

### First- and senior-author publications (Peer-reviewed except where noted.)

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|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 2026 | Ye, Ladd, MacKenzie, Kolich, Li, Birman, Bull, Daigle, Tasic, Zeng, <b>Steinmetz</b><br><a href="#">Brain-wide Topographic Coordination of Rotating Waves</a> | Science                     |
|      | Li*, Lu*, Ladd, Matveev, Shea-Brown, <b>Steinmetz</b><br><a href="#">Global Origins of Trial-to-trial Spike Count Variability in Visual Cortex</a>            | Nature Neuro.<br>(in press) |
|      | Shaker, Schroeter, Birman, <b>Steinmetz</b><br><a href="#">The Midbrain Reticular Formation in Contextual Control of Perceptual Decisions</a>                 | Neuron                      |

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|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
|      | Siegle, <b>Steinmetz</b><br>Large-scale Electrophysiology at Single-spike Resolution   review                                                                                                                       | Nature Rev<br>Neurosci |
|      | Roth, Chapuis, Winter, The International Brain Laboratory, ..., Horwitz, <b>Steinmetz</b><br>A Flexible Quality Metric for Electrophysiological Recordings Across Brain Regions and Species   preprint              | bioRxiv                |
| 2025 | Lu, Li, Ladd, Matveev, Deole, Shea-Brown, Kutz, <b>Steinmetz</b><br>Benchmarking Probabilistic Time Series Forecasting Models on Neural Activity   preprint                                                         | arXiv                  |
|      | Ye*, Shelton*, Shaker, Boussard, Colonell, ..., Koch, Olsen, Harris, <b>Steinmetz</b><br>Ultra-High Density Neuropixels Probes Improve Detection and Identification in Neuronal Recordings                          | Neuron                 |
|      | The International Brain Laboratory, ..., <b>Steinmetz</b> , et al.<br>Reproducibility of In-vivo Electrophysiological Measurements in Mice                                                                          | eLife                  |
| 2024 | Matveev*, Li*, Ye, Bowen, Opitz-Araya, Ting, <b>Steinmetz</b><br>Simultaneous Mesoscopic Measurement and Manipulation of Mouse Cortical Activity   preprint                                                         | bioRxiv                |
| 2023 | Birman, Yang, West, Karsh, Browning, IBL, Siegle, <b>Steinmetz</b><br>Pinpoint: Trajectory Planning for Multi-probe Electrophysiology and Injections in an Interactive Web-based 3D Environment   reviewed preprint | eLife                  |
|      | Ottenheimer, Hjort, Bowen, <b>Steinmetz*</b> , Stuber*<br>A Stable, Distributed Code for Cue Value in Mouse Cortex During Reward Learning                                                                           | eLife                  |
| 2022 | Recanatesi, Bradde, Balasubramanian*, <b>Steinmetz*</b> , Shea-Brown*<br>A Scale-dependent Measure of System Dimensionality                                                                                         | Patterns               |
| 2021 | <b>Steinmetz*</b> , Aydin*, Lebedeva*, Okun*, Pachitariu*, et al.<br>Neuropixels 2.0: A Miniaturized High-density Probe for Stable, Long-term Brain Recordings                                                      | Science                |
|      | Zatka-Haas*, <b>Steinmetz*</b> , Carandini, Harris<br>Sensory Coding and the Causal Impact of Mouse Cortex in a Visual Decision                                                                                     | eLife                  |
| 2019 | <b>Steinmetz</b> , Zatka-Haas, Carandini, Harris<br>Distributed Coding of Choice, Action, and Engagement Across the Mouse Brain                                                                                     | Nature                 |
|      | Engel, <b>Steinmetz</b><br>New Perspectives on Dimensionality and Variability from Large-scale Cortical Dynamics   review                                                                                           | Curr Op in<br>Neurobio |
| 2018 | <b>Steinmetz</b> , Koch, Harris, Carandini<br>Challenges and Opportunities for Large-Scale Electrophysiology with Neuropixels Probes   review                                                                       | Curr Op in<br>Neurobio |
|      | Shamash, Harris, Carandini, <b>Steinmetz</b><br>A Tool for Analyzing Electrode Tracks From Slice Histology   preprint                                                                                               | bioRxiv                |
| 2017 | Jun*, <b>Steinmetz*</b> , Siegle*, Denman*, Bauza*, Barbarits*, Lee*, et al.<br>Fully Integrated Silicon Probes for High-Density Recording of Neural Activity                                                       | Nature                 |
|      | Burgess*, Lak*, <b>Steinmetz*</b> , Zatka-Haas*, et al.<br>High-Yield Methods for Accurate Two-Alternative Visual Psychophysics in Head-Fixed Mice                                                                  | Cell Reports           |
|      | <b>Steinmetz</b> , Buetfering, Lecoq, Lee, et al.<br>Aberrant Cortical Activity in Multiple GCaMP6-Expressing Transgenic Mouse Lines                                                                                | eNeuro                 |
| 2016 | Engel*, <b>Steinmetz*</b> , Gieselmann, Thiele, Moore, Boahen<br>Selective Modulation of Cortical State During Spatial Attention                                                                                    | Science                |

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|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 2014 | <b>Steinmetz</b> , Moore<br>Eye Movement Preparation Modulates Neuronal Responses in Area V4 When Dissociated from Attentional Demands                | Neuron                       |
|      | <b>Steinmetz</b><br>Circuits Underlying Visual Attention in Primate Neocortex                                                                         | Ph.D. Thesis, Stanford Univ. |
| 2012 | Squire*, <b>Steinmetz</b> *, Moore<br>Frontal Eye Field   review                                                                                      | Scholarpedia                 |
|      | <b>Steinmetz</b> , Moore<br>Lumping and Splitting the Neural Circuitry of Visual Attention   commentary                                               | Neuron                       |
| 2010 | <b>Steinmetz</b> , Moore<br>Changes in the Response Rate and Response Variability of Area V4 Neurons During the Preparation of Saccadic Eye Movements | J Neurophys                  |

*Collaborative (middle-author) publications (Peer-reviewed except where noted.)*

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|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 2026 | Hjort, Garrett, Gordon, Ancell, Trzeciak, Lu, Bruchas, Witten, <b>Steinmetz</b> , Stuber<br>Prefrontal to Ventral Tegmental Area Dynamics Drive Contingency Degradation                          | Nature           |
|      | Deveau, Zhou, LaFosse, Deng, Mirbagheri, <b>Steinmetz</b> , Histed<br>Recurrent Cortical Networks Encode Natural Sensory Statistics via Sequence Filtering                                       | Neuron           |
| 2025 | The International Brain Laboratory, ..., <b>Steinmetz</b> , et al.<br>A Brain-Wide Map of Neural Activity During Complex Behaviour                                                               | Nature           |
|      | Findling, Hubert, The International Brain Laboratory, ... <b>Steinmetz</b> , ..., Dayan, Pouget<br>Brain-wide Representations of Prior Information in Mouse Decision-making                      | Nature           |
|      | Windolf, ..., <b>Steinmetz</b> , ..., Paninski, Varol<br>DREDge: Robust Motion Correction for High-density Extracellular Recordings Across Species                                               | Nature Methods   |
|      | Lakunina*, Socha*, Ladd*, ..., <b>Steinmetz</b> , Svoboda, Siegle, Carandini<br>Neuropixels Opto: Combining High-resolution Electrophysiology and Optogenetics                                   | Nature Methods   |
|      | Yu, ..., <b>Steinmetz</b> , Paninski, Hurwitz<br>In Vivo Cell-type and Brain Region Classification Via Multimodal Contrastive Learning   preprint                                                | bioRxiv          |
|      | Lee, ..., <b>Steinmetz</b> , ..., Chandrasekaran<br>A Multimodal Approach for Visualizing and Identifying Electrophysiological Cell Types                                                        | Nature Comm      |
| 2024 | Chandrasekaran, Vermani, Gupta, <b>Steinmetz</b> , Moore, Sridharan<br>Dissociable Components of Attention Exhibit Distinct Neuronal Signatures in Primate Visual Cortex                         | Science Advances |
|      | Song, Shin, Seo, Soltani, <b>Steinmetz</b> , Lee, Jung, Paik<br>Hierarchical Gradients of Multiple Timescales in the Mammalian Forebrain                                                         | PNAS             |
|      | Birman*, Chapuis*, Faulkner*, Rossant*, the International Brain Laboratory, ..., <b>Steinmetz</b> , et al.<br>Interactive Data Exploration Websites for Large-scale Electrophysiology   preprint | bioRxiv          |
|      | Lewis, Suarez, Rigolli, <b>Steinmetz</b> , Gire<br>The Spiking Output of The Mouse Olfactory Bulb Encodes Large-Scale Temporal Features of Natural Odor Environments   preprint                  | bioRxiv          |

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|      | Zhang, He, Boussard, Windolf, Winter, Trautmann, Roth, Barrell, Churchland, <b>Steinmetz</b> , IBL, Varol, Hurwitz, Paninski<br><a href="#">Bypassing spike sorting: Density-based Decoding Using Spike Localization from Dense Multielectrode Probes</a> | <i>NeurIPS</i>                   |
|      | Zeraati, Shi, <b>Steinmetz</b> , Gieselmann, Thiele, Moore, Levina, Engel<br><a href="#">Intrinsic Timescales in the Visual Cortex Change With Selective Attention and Reflect Spatial Connectivity</a>                                                   | <i>Nature Comm</i>               |
| 2022 | The International Brain Laboratory, ..., <b>Steinmetz</b> , et al.<br><a href="#">Data Architecture for a Large-scale Neuroscience Collaboration</a>                                                                                                      | <i>Nature Methods</i>            |
|      | Zagha, Erlich, Lee, Lur, O'Connor, <b>Steinmetz</b> , Stringer, Yang<br><a href="#">The Importance of Accounting for Movement When Relating Neuronal Activity to Sensory and Cognitive Processes</a>   review                                             | <i>J Neurosci</i>                |
|      | Shi, <b>Steinmetz</b> , Moore, Boahen, Engel<br><a href="#">Cortical State Dynamics and Selective Attention Define the Spatial Pattern of Correlated Variability in Neocortex</a>                                                                         | <i>Nature Comm</i>               |
|      | 't Hart, ..., <b>Steinmetz</b> , et al.<br><a href="#">Neuromatch Academy: a 3-week, Online Summer School in Computational Neuroscience</a>                                                                                                               | <i>J Open Science Education</i>  |
| 2021 | Peters, Fabre, <b>Steinmetz</b> , Harris, Carandini<br><a href="#">Striatal Activity Topographically Reflects Cortical Activity</a>                                                                                                                       | <i>Nature</i>                    |
|      | Van Kempen, Gieselmann, Boyd, <b>Steinmetz</b> , Moore, Engel, Thiele<br><a href="#">Top-down Coordination of Local Cortical State During Selective Attention</a>                                                                                         | <i>Neuron</i>                    |
|      | Petersen, Siegle, <b>Steinmetz</b> , Mahallati, Buzsáki<br><a href="#">CellExplorer: A Framework for Visualizing and Characterizing Single Neurons</a>                                                                                                    | <i>Neuron</i>                    |
|      | Benjamin, <b>Steinmetz</b> , Oza, Aguayo, Boahen<br><a href="#">Neurogrid Simulates Cortical Cell-types, Active Dendrites, and Top-down Attention</a>                                                                                                     | <i>Neuromorphic Comp and Eng</i> |
|      | Linden, Tabuena, <b>Steinmetz</b> , Moody, Brunton S, Brunton B<br><a href="#">Go with the FLOW: Visualizing Spatiotemporal Dynamics in Optical Widefield Calcium Imaging</a>                                                                             | <i>J Royal Society Interface</i> |
| 2020 | Schröder, <b>Steinmetz</b> , Krumin, Pachitariu, Rizzi, Lagnado, Harris, Carandini<br><a href="#">Arousal Modulates Retinal Output</a>                                                                                                                    | <i>Neuron</i>                    |
|      | Jacobs, <b>Steinmetz</b> , Carandini, Harris<br><a href="#">Cortical State Fluctuations During Sensory Decision Making</a>                                                                                                                                | <i>Current Biology</i>           |
|      | Dimitriadis, Neto, ..., <b>Steinmetz</b> , et al.<br><a href="#">Why Not Record from Every Electrode with a CMOS Scanning Probe?</a>   preprint                                                                                                           | <i>bioRxiv</i>                   |
| 2019 | Stringer*, Pachitariu*, <b>Steinmetz</b> , Carandini, Harris<br><a href="#">High-Dimensional Geometry of Population Responses in Visual Cortex</a>                                                                                                        | <i>Nature</i>                    |
|      | Stringer*, Pachitariu*, <b>Steinmetz</b> , Reddy, Carandini, Harris<br><a href="#">Spontaneous Behaviors Drive Multidimensional, Brain-Wide Population Activity</a>                                                                                       | <i>Science</i>                   |
|      | Shimaoka, <b>Steinmetz</b> , Harris, Carandini<br><a href="#">The Impact of Bilateral Ongoing Activity on Evoked Responses in Mouse Cortex</a>                                                                                                            | <i>eLife</i>                     |
|      | Okun, <b>Steinmetz</b> , Lak, Dervinis, Harris<br><a href="#">Distinct Structure of Cortical Population Activity on Fast and Infralow Timescales</a>                                                                                                      | <i>Cerebral Cortex</i>           |
|      | Pettine, <b>Steinmetz</b> , Moore<br><a href="#">Laminar Segregation of Sensory Coding and Behavioral Readout in Macaque V4</a>                                                                                                                           | <i>PNAS</i>                      |

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| 2017 | Sridharan, <b>Steinmetz</b> , Moore, Knudsen<br>Does the Superior Colliculus Control Perceptual Sensitivity or Choice Bias during Attention?<br>Evidence from a Multialternative Decision Framework | <i>J Neurosci</i>          |
| 2016 | Stringer, Pachitariu, <b>Steinmetz</b> , Okun, Bartho, Harris, Sahani, Lesica<br>Inhibitory Control of Correlated Intrinsic Variability in Cortical Networks                                        | <i>eLife</i>               |
|      | Pachitariu, <b>Steinmetz</b> , Kadir, Carandini, Harris<br>Fast and Accurate Spike Sorting of High-Channel Count Probes with Kilosort                                                               | <i>NeurIPS</i>             |
| 2015 | Okun, <b>Steinmetz</b> , ... Carandini, Harris<br>Diverse Coupling of Neurons to Populations in Sensory Cortex                                                                                      | <i>Nature</i>              |
| 2014 | Zirnsak, <b>Steinmetz</b> , Noudoost, Xu, Moore<br>Visual Space is Compressed in Prefrontal Cortex Before Eye Movements                                                                             | <i>Nature</i>              |
|      | Sridharan, <b>Steinmetz</b> , Moore, Knudsen<br>Distinguishing Bias from Sensitivity Effects in Multialternative Detection Tasks                                                                    | <i>J Vision</i>            |
| 2010 | Noudoost, Chang, <b>Steinmetz</b> , Moore<br>Top-Down Control of Visual Attention   review                                                                                                          | <i>Curr Op in Neurobio</i> |
| 2009 | Aton, Seibt, Dumoulin, Jha, <b>Steinmetz</b> , Coleman, Naidoo, Frank<br>Mechanisms of Sleep-Dependent Consolidation of Cortical Plasticity                                                         | <i>Neuron</i>              |
| 2008 | Liu, <b>Steinmetz</b> , Farley, Smith, Joseph<br>Mid-fusiform Activation During Object Discrimination Reflects the Process of Differentiating Structural Descriptions                               | <i>J Cog Neuro</i>         |
| 2006 | Joseph, Cerullo, Farley, <b>Steinmetz</b> , Mier<br>fMRI Correlates of Cortical Specialization and Generalization for Letter Processing                                                             | <i>Neuroimage</i>          |
|      | Joseph, Powell, Andersen, ..., <b>Steinmetz</b> , Zhang<br>fMRI in Alert, Behaving Monkeys: An Adaptation of the Human Infant Familiarization Novelty Preference Procedure                          | <i>J Neurosci Methods</i>  |
| 2005 | Jha, Jones, Coleman, <b>Steinmetz</b> , ..., Frank<br>Sleep-Dependent Plasticity Requires Cortical Activity                                                                                         | <i>J Neurosci</i>          |

#### Professional Service

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| 2019 – pres. | Editorial Board, <i>Scientific Data</i>                                                                                                                                                                             |
| 2014 – pres. | Peer reviewer for journals including <i>Nature</i> , <i>Science</i> , <i>eLife</i> , <i>Neuron</i> , <i>Current Biology</i> , <i>J. of Neuroscience</i> , <i>J. of Neurophysiology</i> , and <i>Cerebral Cortex</i> |

#### Invited Talks

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| 2026 July | Organization for Computational Neuroscience, Halifax, Nova Scotia, CA        |
| 2026 June | Allen Institute for Neural Dynamics, Seattle, WA, USA                        |
| 2025 Oct  | Lake Conference, Renton, WA, USA                                             |
| 2025 Oct  | UCLA, Los Angeles, CA, USA                                                   |
| 2025 Sept | Allen Institute Summer Workshop on the Dynamic Brain, Friday Harbor, WA, USA |
| 2025 May  | Columbia University, New York, NY, USA                                       |
| 2025 Mar  | Rockefeller University, New York, NY, USA                                    |
| 2024 Dec  | 'Wave Club' virtual seminar series                                           |
| 2024 Nov  | Stanford University, Palo Alto, CA, USA                                      |
| 2024 Mar  | University of British Columbia, Vancouver, BC, Canada                        |
| 2024 Feb  | Seattle Children's Research Institute, Seattle, WA, USA                      |
| 2024 Feb  | Thalamocortical Gordon Research Conference, Ventura, CA, USA                 |

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| 2024 Feb  | Baylor University, Houston, TX, USA                                                               |
| 2023 Dec  | Keynote: Statistical Analysis of Neural Data, Pittsburgh, PA, USA                                 |
| 2023 Oct  | University of Utah, Salt Lake City, UT, USA                                                       |
| 2023 Jun  | Champalimaud Centre for the Unknown, Lisbon, Portugal ( <i>virtual</i> )                          |
| 2023 May  | Klingenstein-Simons Fellowship Meeting, New York, NY, USA                                         |
| 2023 Apr  | NeuroTEC Symposium, UW, Seattle, WA, USA                                                          |
| 2023 Feb  | DFG Research Unit 5159, Hamburg, Germany ( <i>virtual</i> )                                       |
| 2023 Feb  | Johns Hopkins University, Baltimore, MD, USA                                                      |
| 2022 Nov  | International Network for Bio-Inspired Computing Workshop, UW, Seattle, WA, USA                   |
| 2022 Oct  | A3D3: Accelerated Artificial Intelligence Algorithms for Data-Driven Discovery ( <i>virtual</i> ) |
| 2022 Sept | NeuroAI, Seattle, WA, USA                                                                         |
| 2022 June | Champalimaud Centre for the Unknown, Lisbon, Portugal ( <i>virtual</i> )                          |
| 2022 Mar  | University of Texas, Austin, TX, USA ( <i>virtual</i> )                                           |
| 2022 Mar  | Columbia University, New York, NY, USA                                                            |
| 2022 Mar  | Princeton University, Princeton, NJ, USA                                                          |
| 2022 Feb  | University of California, San Diego, CA, USA ( <i>virtual</i> )                                   |
| 2021 Oct  | University of Sussex, England, UK ( <i>virtual</i> )                                              |
| 2021 Sept | Karolinska Institute, Sweden ( <i>virtual</i> )                                                   |
| 2021 Mar  | University of Geneva, Geneva, Switzerland ( <i>virtual</i> )                                      |
| 2021 Mar  | Medical University of South Carolina, Charleston, SC, USA ( <i>virtual</i> )                      |
| 2020 Dec  | University of Texas Health Science Center, Houston, TX, USA ( <i>virtual</i> )                    |
| 2020 Nov  | Hebrew University, Jerusalem, Israel ( <i>virtual</i> )                                           |
| 2020 Sept | Simons Foundation Workshop on Spike Sorting, New York, NY, USA ( <i>virtual</i> )                 |
| 2020 July | FENS Workshop "Measuring activity at brain-wide scale", Glasgow, UK ( <i>virtual</i> )            |
| 2020 May  | Netherlands Institute for Neuroscience, Amsterdam, NL ( <i>virtual</i> )                          |
| 2020 Mar  | Cosyne Workshop on "Modules in the Brain", Breckenridge, CO, USA                                  |
| 2020 Jan  | Albert Einstein College of Medicine, New York, NY, USA                                            |
| 2020 Jan  | University of Oslo, Oslo, Norway                                                                  |
| 2019 Nov  | Allen Institute for Brain Science, Seattle, WA, USA                                               |
| 2019 Oct  | Society for Neuroscience, Minisymposium, Chicago, IL, USA                                         |
| 2019 Sept | Next-generation Neurotech Symposium, IBRO 2019, Daegu, South Korea                                |
| 2019 Sept | Allen Institute Workshop on the Dynamic Brain, Friday Harbor, WA, USA                             |
| 2019 July | Champalimaud Centre for the Unknown, Lisbon, Portugal                                             |
| 2019 July | Neural Data Science course, Cold Spring Harbor Labs, New York, NY, USA                            |
| 2019 May  | Keynote: Statistical Analysis of Neural Data, Pittsburgh, PA, USA                                 |
| 2019 Apr  | University of Washington, Seattle, WA, USA                                                        |
| 2019 Mar  | University of Oregon, Eugene, OR, USA                                                             |
| 2019 Jan  | Neural Computation and Engineering Connection, University of Washington, Seattle, WA, USA         |
| 2018 Nov  | Society for Neuroscience, Nanosymposium, San Diego, CA, USA                                       |
| 2018 Oct  | 'Neureka' Symposium, Kings College London, London, UK                                             |
| 2018 Sept | Cardiff University, Cardiff, Wales, UK                                                            |
| 2018 May  | International Brain Laboratory, First Science Meeting, Paris, France                              |
| 2018 May  | International Conference for Advanced Neurotechnology, Ann Arbor, MI, USA                         |
| 2018 Mar  | Cosyne Workshop on "Brain-wide neuronal dynamics", Breckenridge, CO, USA                          |
| 2018 Feb  | Neuralink, San Francisco, CA, USA                                                                 |
| 2017 Nov  | SfN Neuropixels Satellite Session, Washington, DC, USA                                            |
| 2017 Oct  | Kavli Futures Symposium: Neurotechnology, Santa Monica, CA, USA                                   |
| 2017 Sept | NIH Neurotechnology Seminar, Bethesda, MD, USA                                                    |
| 2017 July | Computational Neuroscience Society, Antwerp, Belgium                                              |
| 2017 July | Champalimaud Centre for the Unknown, Lisbon, Portugal                                             |

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| 2017 June | International Conference for Advanced Neurotechnology, Freiburg, Germany |
| 2016 Nov  | Institute of Ophthalmology, University College London, London, UK        |
| 2015 Nov  | Neuroseeker Data Workshop, Nijmegen, Netherlands                         |

### *Other Training*

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| 2012 | FENS-IBRO-Hertie Winter School on "Neural Coding in Sensory Systems", Obergurgl, Austria |
| 2009 | "Methods in Computational Neuroscience", Woods Hole, MA, USA                             |

### *Teaching Activities*

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| 2026         | Lecturer, Transylvania Experimental Neuroscience Summer School, Cluj, Romania                                                                     |
| 2023 - 2026  | Lecturer, "Neurobiology" (NEURO502), UW                                                                                                           |
| 2020 - 2026  | Course organizer and lecturer, "Seminar in Computational Neuroscience" (NEUSCI490), UW                                                            |
| 2019 - 2023  | Lecturer, "Current Topics in Neurobiology and Behavior" (NEURO527), UW                                                                            |
| 2020, 22, 26 | Lecturer, "Computational Neuroscience" (CSE/NEUBEH 528), UW                                                                                       |
| 2019 - 2025  | Course organizer and lecturer for <a href="#">Neuropixels Workshop</a> , Allen Institute for Brain Science & UW                                   |
| 2018         | Course organizer and instructor for International Brain Laboratory "Neuropixels mini-course"                                                      |
| 2018         | Course instructor for Cajal Course " <a href="#">Linking Neural Circuits and Behavior</a> ", Bordeaux, France                                     |
| 2018         | Course instructor for <a href="#">Paris Neuro</a> , Paris, France                                                                                 |
| 2017         | Teaching Assistant for Cajal Course " <a href="#">Interacting with Neural Circuits</a> ", Champalimaud Centre, Lisbon, Portugal                   |
| 2017 - 2023  | Course organizer and/or lecturer for <a href="#">Neuropixels Training Course</a> , University College London                                      |
| 2012         | Teaching Assistant, <i>Large-scale neural models</i> , with Dr. Kwabena Boahen, Stanford University                                               |
| 2011         | Teaching Assistant, <i>Computational Neuroscience</i> , with Dr. John Huguenard, Stanford University                                              |
| 2009         | Teaching Assistant, <i>Information and Signaling in Neurons and Networks</i> , with Dr. Richard Tsien and Dr. Stephen Baccus, Stanford University |
| 2008         | Teaching Assistant, "Stanford Intensive Neuroscience" graduate program boot camp                                                                  |