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| Education | University of Washington , Seattle, WA Doctor of Philosophy, Bioengineering Advisers: Dr. Rajesh P.N. Rao, Dr. Jeffrey Ojemann | 2018 – present |
| | University of Washington , Seattle, WA Bachelor of Science, Bioengineering (honors) Capstone Adviser: Dr. Christine Mac Donald | 2014 – 2018 |
| Professional Experience | GRID Lab , Seattle, WA <i>Graduate Research Assistant</i> Applied modern computational methods to characterize different brain states, such as sleep and wake, and identify neural features relevant for behavioral brain state classification. Currently building models of neural response to electrical stimulation to design neurostimulation methods that are responsive to underlying neural activity | 2019 – present |
| | University of Washington , Seattle, WA <i>Graduate Rotation Student</i> Extracted intra- and inter-regional neural electrophysiology features from human electrocorticography to quantify and predict outcomes of electrical stimulation in S1. | 2018 – 2019 |
| | Physio-Control , Redmond, WA <i>Biomedical Research Intern</i> Evaluated a method to isolate motion artifact from the impedance signal collected during cardiopulmonary resuscitation by developing circuit models and animal testing protocols. | 2018 |
| | Mac Donald Research Lab , Seattle, WA <i>Undergraduate Research Assistant</i> Quantified brain network-level changes in pediatric sports-related concussion using graph theory applied to diffusion tensor imaging data. | 2017 – 2018 |
| | CoMotion Mary Gates Innovation Internship , Seattle, WA <i>Bio-engineering Scholar</i> Designed and pitched a business case for expanding rapid diagnostic tests to the STD market through patient cohort searches in medical databases and visiting local STD clinics. | 2017 |
| Peer-Reviewed Publications | S. Sun , L. P. Jiang, S. M. Peterson, J. Herron, K. Weaver, A. Ko, J. Ojemann, R. P. N. Rao. "Unsupervised Sleep and Wake State Identification in Long-Term Electrocorticography Recordings," 2020 42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society, Montreal, QC, Canada, 2020, pp. 629-632 | |
| | C. L. Mac Donald, J. Barber, J. Wright, D. Coppel, N. De Lacy, S. Ottinger, S. Peck, C. Panks, S. Sun , K. Zalewski, N. Temkin. "Longitudinal Clinical and Neuroimaging Evaluation of Symptomatic Concussion in 10- to 14-Year-Old Youth Athletes," J Neurotrauma. 2019 Dec 27 | |

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| | C. L. Mac Donald, J. Barber, J. Wright, D. Coppel, N. De Lacy, S. Ottinger, S. Peck, C. Panks, K. Zalewski, S. Sun , N. Temkin. "Quantitative Volumetric Imaging and Clinical Outcome Characterization of Symptomatic Concussion in 10- to 14-Year-Old Adolescent Athletes," J Head Trauma Rehabil. 2018 Jan 30 | |
| | C. L. Mac Donald, J. Barber, J. Andre, N. Evans, C. Panks, S. Sun , K. Zalewski, R. Elizabeth Sanders, N. Temkin. "5-Year imaging sequelae of concussive blast injury and relation to early clinical outcome," Neuroimage Clin.;14:371-378. 2017 Feb 9 | |
| Conference Presentations | S. Sun , K. Han, J. Wright, D. Coppel, N. De Lacy, S. Ottinger, S. Peck, C. Panks, C. L. Mac Donald. "A Graph Theoretical Analysis of Symptomatic Pediatric Sports-Related Concussion using Diffusion Tensor Imaging," Poster at The 3 rd Joint Symposium of the International and National Neurotrauma Societies, Toronto, Canada; 2018 | |
| Fellowships | Big Data for Genomics and Neuroscience Training Grant | 2019 – 2020 |
| Awards | Undergraduate Research Symposium Population Health Recognition Award | 2018 |
| | Nomination for Jody Deering Nyquist Awards, Excellence in Public Speaking | 2018 |
| | Mary Gates Research Scholar | 2017 |
| | University of Washington Dean's List (all quarters) | 2014 – 2018 |
| Projects | IEEE SMC Brain-Computer Interface Hackathon , Banff, Canada | 2017 |
| | <i>Team: scorp.io, awarded</i> Developed a telerobotic device controlled by a user's eye and arm muscle movements that enabled real-time control of robot navigation and grasping through a first-person view. | |
| | BMES Coulter College Competition , Atlanta, GA | 2017 |
| | <i>Team: SoundResults, awarded</i> Designed and pitched an engineering solution alternative to mammograms to address disparities in breast cancer screening rates in disadvantaged communities. | |
| Teaching | BIOEN 460: Introduction to Neural Engineering , University of Washington | 2021 |
| | <i>Teaching assistant, developed homework assignments</i> | |
| | BIOEN 317: Bio-instrumentation Lab , University of Washington | 2017 – 2018 |
| | <i>Grader, course website manager, co-developed course materials</i> | |
| Outreach | Center for Neurotechnology Student Leadership Council | 2016 – present |
| | <i>Outreach Coordinator (2020 – present)</i> | |
| | <i>Seminar Coordinator (2019 – 2020)</i> | |
| | <i>President (2018 – 2019)</i> | |
| | <i>Undergraduate Representative (2016 – 2018)</i> | |