

# Austin J. Brockmeier

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## EDUCATION

Ph.D., Electrical and Computer Engineering, University of Florida, Gainesville, FL 5/2014  
“Learning and exploiting recurrent patterns in neural data”, Advisor: Jose C. Principe  
B.S., Computer Engineering, University of Nebraska–Lincoln, Omaha, NE 5/2009  
Highest Distinction, 2<sup>nd</sup> Major: Mathematics, Minor: Computer Science

## EXPERIENCE

**Assistant Professor** University of Delaware, Newark, Delaware 12/2018–Present  
Electrical and Computer Engineering; Computer and Information Sciences  
Data Science Institute (Resident Faculty)  
**Research Fellow** University of Manchester, United Kingdom 3/2017–10/2018  
School of Computer Science  
**Research Associate** University of Liverpool, United Kingdom 6/2014–2/2017  
School of Electrical Engineering, Electronics and Computer Science  
**Graduate Research Assistant** University of Florida 5/2010–5/2014  
Department of Electrical and Computer Engineering  
**Research Assistant** University of Nebraska–Lincoln (Omaha Campus) Summer 2008/2009  
Department of Computer and Electronics Engineering  
**Electronics Engineer** Cenatmed, LLC, Omaha, NE 4/2008–7/2009  
**IT Operations Intern** Union Pacific Railroad, Omaha, NE 8/2006–8/2008

## HONORS AND AWARDS

**International and National**  
– Top 5 List, Neural Engineering Community Award, IEEE EMBS NER Conf. 2021  
– Top 200 Reviewer, Neural Information Processing Systems (NeurIPS) 2018  
– Finalist, IEEE EMBS Conference Student Paper Competition 2013  
– NSF East Asia and Pacific Summer Institutes Fellowship 2012  
“Signal processing techniques to separate and analyze brainwaves” hosted by  
Andrzej Cichocki, RIKEN Brain Science Institute, Japan  
– Honorable Mention, NSF Graduate Research Fellowship 2009, 2010, 2011  
**University of Florida**  
– Honorable Mention, Outstanding Service, Graduate Student Council 2014  
– Graduate School Fellowship 2009–2013  
**University of Nebraska**  
– Dean’s Award, College of Engineering 2009  
– Outstanding Senior, Computer and Electronics Engineering 2009  
– Undergraduate Major Honoree, Computer and Electronics Engineering 2009  
– 1<sup>st</sup> Place Senior Thesis Design Team, Computer and Electronics Engineering 2009  
– James Earl Mathematics Scholarship, Math. Dept., U. Nebraska Omaha 2008–2009  
– Tau Beta Pi Distinguished Freshman Award 2006  
– Walter Scott Jr. Scholarship, Peter Kiewit Institute 2005–2009  
– University of Nebraska Regents Scholarship 2005–2009  
**RESEARCH SUPPORT** – **National Science Foundation** 8/2021–7/2024  
“Detecting and studying light echoes in the era of Rubin and artificial intelligence”,  
Role: Co-PI (PI: Federica Bianco, University of Delaware)

- **Office of Naval Research** 4/2021–4/2024  
“Interpretable maximal discrepancies metrics for analyzing and improving generative models”, Role: PI
  - **Office of Naval Research** 2020–2022  
(Subaward from *Minority Serving Institutions Science, Technology, Engineering and Mathematics Research & Development Consortium*) “Development of Bio-Inspired Nano-Sensors for Underwater Explosives and Hazardous Materials”  
Role: Co-PI (PI: Bruce Kim, City College of New York)
  - **University of Delaware Research Foundation**–Strategic Initiatives 2020–10/2021  
“Advancing machine learning for neuroimaging through topology-aware signal processing” Role: PI, Senior Mentor: Gonzalo Arce, University of Delaware
  - **Unidel Foundation**, University of Delaware’s Data Science Institute 2019–2020  
“Learning to predict systematic errors in machine learning models and alert an expert for improved synergistic performance”
- TEACHING **University of Delaware**, Newark, Delaware, USA
- Instructor*, Signals and Systems (ELEG 305) Spring 2020, Spring 2021
  - Instructor*, Large Scale Machine Learning (ELEG/FSAN 817) Fall 2019, Fall 2020, Fall 2021
- University of Liverpool**, Liverpool, UK
- Instructor* (5 weeks), Eng. Skills (ELEC 171/172) Matlab module Spring 2016, Fall 2016
  - Guest lecturer* (8 weeks), Neural Networks (ELEC 320) Spring 2015
- University of Florida**, Gainesville, Florida, USA
- Guest lecturer*, Brain Machine Interfaces (EEL 6935) Fall 2011, Fall 2013
  - Teaching Assistant*, Microprocessor Applications (EEL 4744) Fall 2009, Spring 2010
- University of Nebraska-Lincoln (Omaha Campus)**, Omaha, Nebraska, USA
- Teaching Assistant*, Microprocessor System Design (CEEN 4330) Spring 2009
  - Teaching Assistant*, Digital Design and Interfacing (CEEN 3110) Fall 2008
- PRIMARY PH.D. ADVISOR Hassan Baker, Electrical and Computer Engineering Spring 2020–present
- Bilal Riaz, Electrical and Computer Engineering Fall 2019–present
- Yüksel Karahan, Electrical and Computer Engineering Spring 2019–present
- Carlos Mendoza-Cardenas, Electrical and Computer Engineering Winter 2019–present
- M.S. THESIS ADVISOR
- Hau Phan, Electrical and Computer Engineering Winter 2021–present
  - C. Cesar Claros, Electrical and Computer Engineering M.S., Summer 2020
- VISITING SCHOLARS
- Andres Nicolas Lopez, MSc., National University of Colombia Summer 2021
  - Edwin Salcedo, M.Sc., M.B.A., Bolivian Catholic University, La Paz Summer 2019
- COMMITTEE MEMBER: THESIS OR PH.D.
- Sergio Sepúlveda, Electrical and Computer Engineering Ph.D. proposal 8/2021
  - Xinjie “Ethan” Lan, Electrical and Computer Engineering Ph.D. proposal 8/2021
  - Rebecca Clements, Biomedical Engineering Senior Thesis 2nd reader, 5/2021
  - Zahra Vahdat, Electrical and Computer Engineering Ph.D. proposal 12/2020
  - Zhenzhu Zheng, Computer and Information Sciences Ph.D. proposal 11/2020
  - Kevin Corder, Computer and Information Sciences Ph.D. proposal 3/2020
  - Kuang Lu, Electrical and Computer Engineering Ph.D., 11/2020
  - Micahel J. De Lucia, Electrical and Computer Engineering Ph.D., 3/2020
  - Alejandro Parada-Mayorga, Electrical and Computer Engineering Ph.D., 7/2019

TRAINING IN PEDAGOGY AND MENTORING	<ul style="list-style-type: none"> <li>– Culturally Aware Mentoring, Workshop and Introduction CIMER, University of Wisconsin-Madison and University of Delaware 1/2021</li> <li>– Inclusive Teaching Professional Development Workshop Series, University of Delaware College of Engineering Diversity Working Group Spring/Fall 2019</li> <li>– Course Design Institute, University of Delaware 6/2019</li> <li>– Associate Fellow of The Higher Education Academy 3/2016 awarded following “Teaching for Researchers” modules at University of Liverpool</li> </ul>
OUTREACH ACTIVITIES	<ul style="list-style-type: none"> <li>– Project Judge, “UD GSG Hackathon on Misinformation and Cybersecurity” 4/25/2021</li> <li>– Presenter, “Engineering Your Tomorrow”, Sussex County (DE) STEM Alliance 2/2020</li> <li>– Presenter, Serviam Girls Academy, “Measuring Electric Waves in the Brain” 5/2019</li> <li>– Project Judge, FIRST LEGO League SE Pennsylvania Regional Championship 2/2019</li> <li>– Volunteer, Engineering Discovery Day, University of Delaware, AΩE 10/2018</li> <li>– Volunteer, “Meet the Scientists”, at Liverpool’s World History Museum 6/2016</li> <li>– Science Fair Judge (6-8th graders), Alachua County, Florida 2009–2013</li> <li>– Science Quest (10th graders), University of Florida (UF) 7/2011</li> <li>– Guest Lecture, Student Science Training Program (10 – 12th graders) UF 2010</li> </ul>
UNIVERSITY SERVICE	<ul style="list-style-type: none"> <li>– Neuroscience Planning Committee (Chairs: John Jeka/Anna Klintsova) 8/2019–3/2021</li> </ul>
ECE DEPARTMENT SERVICE	<ul style="list-style-type: none"> <li>– IEEE Student Chapter Branch Counselor 5/2019–present</li> <li>– Undergraduate Academic Advisor 8/2020–present</li> <li>– Member, ECE Strategic Planning Committee (Chair: Jamie Phillips) 9/2020–5/2021</li> <li>– Representative, Delaware Decision Days 2× in 2019, 3× in 2021</li> <li>– Representative, Blue &amp; Golden Saturdays 3× in 2019, 2× in 2020</li> <li>– Member, ECE Areas Ad-hoc Committee (Chair: Kenneth Barner) Fall 2019</li> <li>– Representative, Alumni Weekend: “Mastering Makerspaces!” June 2019</li> </ul>
CIS DEPARTMENT SERVICE	<ul style="list-style-type: none"> <li>– Faculty Search Committee, Computer &amp; Information Sciences 2019–2020 (Chair: Chien-Chung Shen; search resulted in 2 tenure-track faculty hires.)</li> </ul>
DATA SCIENCE INSTITUTE SERVICE	<ul style="list-style-type: none"> <li>– Masters of Science in Data Science (academic advisor) 1/2020–present</li> <li>– Data Science Community Hour (faculty advisor) 1/2021–present</li> <li>– Technology &amp; Data Analytics Career Meetup (DSI Representative) 3/4/2020</li> <li>– Data Science Symposium Planning Committee 4/2019–11/2019 (Chairs: Greg Dobler &amp; Zachary Collier)</li> <li>– Mastering Data Science and Statistical Analysis Information Session 11/19/2019</li> <li>– Mastering Data Science and Statistical Analysis Information Session 3/26/2019</li> </ul>
PREVIOUS LEADERSHIP AND SERVICE ROLES	<ul style="list-style-type: none"> <li>– <i>Student Senator</i>, University of Florida 2011–2012</li> <li>– <i>Volunteer</i>, Engineering Recruitment Weekend, University of Florida 2010–2014</li> <li>– <i>President</i>, Omaha Student Chapter 5/2008–5/2009</li> <li>– <i>Delegate</i>, Peter Kiewit Institute, University of Nebraska 2007–2009</li> <li>– <i>Mentor</i>, Scott Scholars (undergraduate) 2006–2009</li> <li>– <i>Volunteer</i>, Nebraska Academic Decathlon (9-12th graders) 2006–2008</li> <li>– <i>Member</i>, Nebraska Coalition for Juvenile Justice 2003–2007</li> </ul>
PROFESSIONAL INVOLVEMENT	<ul style="list-style-type: none"> <li>– IEEE (Institute for Electrical and Electronics Engineers) 2006–Present</li> <li>– Signal Processing Society 2013–Present</li> <li>– Engineering in Medicine and Biology Society (EMBS) 2010–Present</li> <li>– University of Delaware Student Branch Counselor 5/2019–Present</li> </ul>
ACADEMIC SERVICE (REVIEWER)	<ul style="list-style-type: none"> <li>– NSF Reviewer 2021</li> </ul>

Journals:

- *IEEE Transactions on Automatic Control* 2021
- *IEEE Transactions on Neural Networks and Learning Systems* 2015–
- *IEEE Transactions on Knowledge Data Engineering* 2017–
- *IEEE Transactions on Signal Processing* 2019, 2020
- *IEEE Access* 2019
- *IEEE Transactions on Biomedical Engineering* 2014, 2018

Conferences:

- *AAAI* 2018,2020–2022
- *EMNLP* 2018
- *ICASSP* 2009,2018–2021
- *ICLR* 2021
- *ICML* 2019,2021
- *MLSP* 2018–2021
- *NeurIPS* 2018–2021
- *IEEE EMBS NER* 2013,2017,2019,2021

BOOK CHAPTER A. J. Brockmeier and J. C. Príncipe, “Decoding algorithms for brain machine interfaces,” in *Neural Engineering*, Bin He, Ed. Springer, 2013, pp. 223–257.

PATENTS U.S. Patent 10,531,806. J. Principe and A. J. Brockmeier, “Brain state advisory system and methods using calibrated metrics and optimal time-series decomposition,” 1/14/2020.

JOURNAL ARTICLES

17. E. N. Hamulyák, A. J. Brockmeier, J. D. Killas, S. Ananiadou, S. Middeldorp, and A. M. Leroi, “Women’s health in *The BMJ*: a data science history,” *BMJ Open*, 10:e039759, 2020.
16. X. Evangelopoulos, A. J. Brockmeier, T. Mu, J. Y. Goulermas, “Circular object arrangement using spherical embeddings,” *Pattern Recognition*, 103(107192), 2020.
15. A. J. Brockmeier, M. Ju, P. Przybyła, and S. Ananiadou, “Improving reference prioritisation with PICO recognition,” *BMC Medical Informatics and Decision Making*, 19(256), 2019.
14. P. Przybyła, A. J. Brockmeier, and S. Ananiadou, “Quantifying risk factors in medical reports with a context-aware linear model,” *Journal of the American Medical Informatics Association*, 26(6):537–546, 2019.
13. X. Evangelopoulos, A. J. Brockmeier, T. Mu, J. Y. Goulermas, “Continuation methods for approximate large scale object sequencing,” *Machine Learning*, 108(4):595–626, 2019.
12. P. Przybyła, A. J. Brockmeier, G. Kontonatsios, M.-A. Le Pogam, J. McNaught, E. von Elm, K. Nolan, and S. Ananiadou, “Prioritising references for systematic reviews with Robot-Analyst: A user study,” *Research Synthesis Methods*, 9(3):470–488, 2018.
11. A. J. Brockmeier, T. Mu, S. Ananiadou, and J. Y. Goulermas, “Self-tuned descriptive document clustering using a predictive network,” *IEEE Transactions on Knowledge and Data Engineering*, 30(10):1929–1942, 2018.
10. A. J. Brockmeier, T. Mu, S. Ananiadou, and J. Y. Goulermas, “Quantifying the informativeness of similarity measurements,” *Journal of Machine Learning Research*, 18(76):1–61, 2017.
9. G. Kontonatsios, A. J. Brockmeier, P. Przybyła, J. McNaught, T. Mu, J. Y. Goulermas, and S. Ananiadou, “A semi-supervised approach using label propagation to support citation screening,” *Journal of Biomedical Informatics*, 72:67–76, 2017.
8. J. S. Choi, A. J. Brockmeier, D. McNeil, L. von Kraus, J. C. Principe, and J. T. Francis, “Eliciting naturalistic cortical responses with a sensory prosthesis via optimized microstimulation,” *Journal of Neural Engineering*, 13(5):056007, 2016.
7. A. J. Brockmeier and J. C. Principe, “Learning recurrent waveforms within EEGs,” *IEEE Transactions on Biomedical Engineering*, 63(1):43–54, 2016.

6. M. S. Emigh, E. G. Kriminger, A. J. Brockmeier, J. C. Príncipe, and P. M. Pardalos, “Reinforcement learning in video games using nearest neighbor interpolation and metric learning,” *IEEE Transactions on Computational Intelligence and AI in Games*, 8(1):56–66, 2016.
5. J. C. Principe and A. J. Brockmeier, “Representing and decomposing neural potential signals,” *Current Opinion in Neurobiology*, 31:13–17, 2015.
4. A. J. Brockmeier, J. S. Choi, E. G. Kriminger, J. T. Francis, and J. C. Principe, “Neural decoding with kernel-based metric learning,” *Neural Computation*, 26(6):1080–1107, 2014.
3. L. Li, A. J. Brockmeier, J. S. Choi, J. T. Francis, J. C. Sanchez, and J. C. Príncipe, “A tensor-product-kernel framework for multiscale neural activity decoding and control,” *Computational Intelligence and Neuroscience*, Article ID 87016, 2014.
2. L. Li, I. M. Park, A. Brockmeier, B. Chen, S. Seth, J. T. Francis, J. C. Sanchez, and J. C. Principe, “Adaptive inverse control of neural spatiotemporal spike patterns with a reproducing kernel Hilbert space (RKHS) framework,” *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 21(4):532–543, 2013.
1. J. S. Choi, M. M. DiStasio, A. J. Brockmeier, and J. T. Francis, “An electric field model for prediction of somatosensory (S1) cortical field potentials induced by ventral posterior lateral (VPL) thalamic microstimulation,” *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 20(2):161–169, 2012.

PEER-REVIEWED CONFERENCE PAPERS (\* INDICATES ADVISEE)

24. C. H. Mendoza-Cardenas\* and A. J. Brockmeier, “Shift-invariant waveform learning on epileptic ECoG”, *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2021.
23. C. H. Mendoza-Cardenas\* and A. J. Brockmeier, “Searching for waveforms on spatially-filtered epileptic ECoG”, *Int. IEEE/EMBS Conf. Neural Engineering (NER)*, 2021.
22. H. Baker\* and A. J. Brockmeier, “Local and sparse linear causal models for fMRI resting-state signals”, *Int. IEEE/EMBS Conf. Neural Engineering (NER)*, 2021.
21. X. Evangelopoulos, A. J. Brockmeier, T. Mu, and J. Y. Goulermas, “A graduated non-convexity relaxation for large scale seriation,” in *SIAM Int. Conf. Data Mining (SDM)*, 2017.
20. M. Sato, A. J. Brockmeier, G. Kontonatsios, T. Mu, J. Y. Goulermas, J. Tsujii, and S. Ananiadou, “Distributed document and phrase co-embeddings for descriptive clustering,” in *European Chapter of the Association for Computational Linguistics (EACL)*, 2017.
19. A. J. Brockmeier and J. C. Principe, “Explicit versus implicit source estimation for blind multiple input single output system identification,” in *IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2015.
18. E. Santana, A. J. Brockmeier, and J. C. Principe, “Joint optimization of algorithmic suites for EEG analysis,” in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2014.
17. A. J. Brockmeier, E. Santanna, L. Sanchez Giraldo, and J. Principe, “Proentropy: Using entropy to optimize spatial projections,” in *IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2014.
16. A. J. Brockmeier, L. G. Giraldo, J. S. Choi, J. T. Francis, and J. C. Principe, “Learning multiscale neural metrics via entropy minimization,” in *Int. IEEE/EMBS Conf. Neural Engineering (NER)*, 2013.
15. A. J. Brockmeier, L. G. Sanchez Giraldo, M. S. Emigh, J. Bae, J. S. Choi, J. T. Francis, and J. C. Principe, “Information-theoretic metric learning: 2-D linear projections of neural data for visualization,” in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2013.
14. A. J. Brockmeier, J. C. Principe, A. H. Phan, and A. Cichocki, “A greedy algorithm for model selection of tensor decompositions,” in *IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2013.

13. A.-H. Phan, A. Cichocki, P. Tichavsky, G. Luta, and A. Brockmeier, "Tensor completion through multiple Kronecker product decomposition," in *IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2013.
12. A. J. Brockmeier, M. K. Hazrati, W. J. Freeman, and J. C. Principe, "Locating spatial patterns of waveforms during sensory perception in scalp EEG," in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2012.
11. A. J. Brockmeier, J. S. Choi, M. M. Emigh, J. T. Francis, and J. C. Principe, "Subspace matching thalamic microstimulation to tactile evoked potentials in rat somatosensory cortex," in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2012.
10. B. H. Fadlallah, A. J. Brockmeier, S. Seth, L. Li, A. Keil, and J. C. Principe, "An association framework to analyze dependence structure in time series," in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2012.
9. A. J. Brockmeier, B. Mahmoudi, J. C. Sanchez, and J. C. Principe, "Efficient temporal decomposition of local field potentials," in *IEEE Int. Work. Machine Learning for Signal Processing (MLSP)*, 2011.
8. A. J. Brockmeier, J. S. Choi, M. M. DiStasio, J. T. Francis, and J. C. Principe, "Optimizing microstimulation using a reinforcement learning framework," in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2011.
7. S. Craciun, A. J. Brockmeier, A. D. George, H. Lam, and J. C. Principe, "An information-theoretic approach to motor action decoding with a reconfigurable parallel architecture," in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2011.
6. S. Seth, A. J. Brockmeier, J. S. Choi, M. Semework, J. T. Francis, and J. C. Principe, "Evaluating dependence in spike train metric spaces," in *Int. Joint Conf. Neural Networks (IJCNN)*, 2011.
5. S. Seth, A. J. Brockmeier, and J. C. Principe, "A metric approach toward point process divergence," in *IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2011.
4. A. J. Brockmeier, E. G. Kriminger, J. C. Sanchez, and J. C. Principe, "Latent state visualization of neural firing rates," in *Int. IEEE/EMBS Conf. Neural Engineering (NER)*, 2011.
3. L. Li, A. Brockmeier, J. T. Francis, J. C. Sanchez, and J. C. Principe, "An adaptive inverse controller for online somatosensory microstimulation optimization," in *Int. IEEE/EMBS Conf. Neural Engineering (NER)*, 2011.
2. S. Seth, I. Park, A. Brockmeier, M. Semework, J. Choi, J. Francis, and J. Principe, "A novel family of non-parametric cumulative based divergences for point processes," in *Advances in Neural Information Processing Systems (NIPS)*, 2010.
1. A. J. Brockmeier, I. Park, B. Mahmoudi, J. C. Sanchez, and J. C. Principe, "Spatio-temporal clustering of firing rates for neural state estimation," in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2010.

OPEN PEER REVIEWED MANUSCRIPTS (\* INDICATES ADVISEE) A. J. Brockmeier, Y. Karahan\*, C. C. Claros\*, C. H. Mendoza-Cardenas\*, M. S. Emigh, and L. G. Sanchez Giraldo, "Max-sliced Bures Distance for Interpreting Discrepancies," [https://openreview.net/forum?id=D2Fp\\_qheYu](https://openreview.net/forum?id=D2Fp_qheYu), 2021.

P. Zingo, A. Brockmeier, A. Novocin, "Transfusion: Reproducibility Study and Analysis," Submitted to *NeurIPS 2019 Reproducibility Challenge*, <https://openreview.net/forum?id=3EGF5it-1K>, 2020.

ABSTRACTS 5. K. Nolan, S. Ananiadou, P. Przybyła, A. J. Brockmeier, "RobotAnalyst: An online system to support citation screening in evidence reviewing," at *Global Evidence Summit*, Cape Town, South Africa, 9/2017.

4. S. Dura-Bernal, K. Li, A. J. Brockmeier, C. C. Kerr, S. A. Neymotin, J. C. Principe, J. T. Francis, and W. W. Lytton, “Modulation of virtual arm trajectories via microstimulation in a spiking model of sensorimotor cortex,” at *23rd Ann. Computational Neuroscience Meeting: CNS\*2014*, Québec City, Canada, 7/2014.
3. E. Kriminger, A. Brockmeier, L. Sanchez-Giraldo, and J. Principe. “Metric learning for invariant feature generation in reinforcement learning,” at *Reinforcement Learning and Decision Making*, Princeton, New Jersey, 10/2013.
2. J. S. Choi, A. J. Brockmeier, M. Emigh, L. von Kraus, and J. T. Francis. “Optimizing multi-channel microstimulation pulse trains with a model-predictive controller,” at *23rd Ann. Meeting of the Society for the Neural Control of Movement*, San Juan, Puerto Rico, 4/2013.
1. E. K. Anderson, A. J. Brockmeier, N. G. Reyer, D. S. Barber, and N. D. Denslow. “Developing and validating a novel method for selecting class-specific biomarkers in ecotoxicology: A case study using fathead minnow microarray data,” at *31st Ann. National SETAC Conf.*, Portland, Oregon, 11/2010.

- INVITED TALKS/PANELS
3. Session Chair, “DARWIN for Physics, Engineering, and Computer Science,” *DARWIN Computing Symposium*, University of Delaware Data Science Institute, 2/12/2021.
  2. “Mini Report by a JSPS Alumnus,” *Japan Society for Promotion of Science (JSPS) Fellowship Info Session*, University of Delaware’s Institute for Global Studies; Office of International Students & Scholars, Newark, Delaware, 11/21/2019.
  1. Panelist, “Breakout session: Data science and precision medicine,” *2019 Delaware IDeAs Symposium*, Newark, Delaware, 11/7/2019.