## Austin J. Brockmeier

ajbrock@udel.edu

https://www.eecis.udel.edu/~ajbrock

Evans Hall

139 The Green

University of Delaware

Newark, DE 19716 USA EDUCATION Ph.D., Electrical and Computer Engineering, University of Florida, Gainesville, FL May 2014 "Learning and exploiting recurrent patterns in neural data", Advisor: Jose C. Principe B.S., Computer Engineering, University of Nebraska-Lincoln, Omaha, NE May 2009 Highest Distinction, 2<sup>nd</sup> Major: Mathematics, Minor: Computer Science EXPERIENCE Assistant Professor University of Delaware, Newark, Delaware Dec. 2018–Present Electrical and Computer Engineering; Computer and Information Sciences Data Science Institute (Resident Faculty) **Research Fellow** University of Manchester, United Kingdom Mar. 2017–Oct. 2018 School of Computer Science Research Associate University of Liverpool, United Kingdom Jun. 2014-Feb. 2017 School of Electrical Engineering, Electronics and Computer Science Graduate Research Assistant University of Florida May 2010–May 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 Apr. 2008–July 2009 IT Operations Intern Union Pacific Railroad, Omaha, NE Aug. 2006-Aug. 2008 **International and National** HONORS AND AWARDS - 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 brainwayes" hosted by Andrzej Cichocki, RIKEN Brain Science Institute, Japan 2009, 2010, 2011 Honorable Mention, NSF Graduate Research Fellowship University of Florida - Honorable Mention, Outstanding Service, Graduate Student Council 20142009-2013 - Graduate School Fellowship 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 - Office of Naval Research 2020 - 2022Support (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) (UD portion \$170,659)

|                                 | <ul> <li>University of Delaware Research Foundation-Strateg:<br/>"Advancing machine learning for neuroimaging through top<br/>processing" Role: PI, Senior Mentor: Gonzalo Arce (\$30,000)</li> </ul> | ology-aware signal  |  |  |
|---------------------------------|---|---|--|--|
|                                 | <ul> <li>Unidel Foundation, University of Delaware's Data Science<br/>"Learning to predict systematic errors in machine learning r<br/>for improved synergistic performance" (\$10,000)</li> </ul>    | e Institute 2019–2020   |  |  |
| 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  |  |  |
|                                 | <b>University of Liverpool</b> , Liverpool, UK  |   |  |  |
|                                 | $Instructor~(5~{\rm weeks}),$ Eng. Skills (ELEC 171/172)<br>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), Oma  | ha, Nebraska, USA   |  |  |
|                                 | Teaching Assistant, Microprocessor System Design (CEEN 4330)  | Spring 2009   |  |  |
|                                 | Teaching Assistant, Digital Design and Interfacing (CEEN 3110) $$   | Fall 2008   |  |  |
| Primary                         | Hassan Baker, Electrical and Computer Engineering   | Spring 2020–present   |  |  |
| Ph.D.<br>Advisor                | Bilal Riaz, Electrical and Computer Engineering   | Fall 2019–present   |  |  |
| 110 1501                        | Yüksel Karahan, Electrical and Computer Engineering   | Spring 2019–present   |  |  |
|                                 | Carlos Mendoza-Cardenas, Electrical and Computer Engineering  | Winter 2019–present   |  |  |
| M.S. The                        | SIS   |   |  |  |
| Advisor                         | Hau Phan, Electrical and Computer Engineering   | Winter 2021–present   |  |  |
|                                 | C. Cesar Claros, Electrical and Computer Engineering  | M.S., Summer 2020   |  |  |
| Visiting                        |   |   |  |  |
| Scholars                        | Edwin Salcedo, M.Sc., M.B.A., Bolivian Catholic University, La Paz  | Summer 2019   |  |  |
| Committee                       |   |   |  |  |
| Member:<br>Thesis of<br>Ph.D.   |   | reader, Spring 2020–present   |  |  |
|                                 | Zahra Vahdat, Electrical and Computer Engineering   | Ph.D. proposal Dec. 2020  |  |  |
|                                 | Zhenzhu Zheng, Computer and Information Sciences  | Ph.D. proposal Nov. 2020  |  |  |
|                                 | Kevin Corder, Computer and Information Sciences   | Ph.D. proposal Mar. 2020  |  |  |
|                                 | Kuang Lu, Electrical and Computer Engineering   | Ph.D., Nov. 2020  |  |  |
|                                 | Micahel J. De Lucia, Electrical and Computer Engineering  | Ph.D., Mar. 2020  |  |  |
|                                 | Alejandro Parada-Mayorga, Electrical and Computer Engineering   | Ph.D., July 2019  |  |  |
| Training<br>Pedagog<br>Mentorii | Y AND CIMER, University of Wisconsin-Madison and University of  | es, University of Delaware<br>Spring/Fall 2019<br>June 2019<br>March 2016 |  |  |

| Outreach<br>Activities                         | $\begin{array}{lll} - & \mbox{Presenter, "Engineering Your Tomorrow", Sussex County (DE) STEM Alliance 2/2020} \\ - & \mbox{Presenter, Serviam Girls Academy, "Measuring Electric Waves in the Brain" 5/2019} \\ - & \mbox{Project Judge, FIRST LEGO League SE Pennsylvania Regional Championship 2/2019} \\ - & \mbox{Volunteer, Engineering Discovery Day, University of Delaware, A\OmegaE 10/2018} \\ - & \mbox{Volunteer, "Meet the Scientists", at Liverpool's World History Museum 6/2016} \\ - & \mbox{Science Fair Judge (6-8th graders), Alachua County, Florida 2009–2013} \\ - & \mbox{Science Quest (10th graders), University of Florida (UF) 7/2011} \\ - & \mbox{Guest Lecture, Student Science Training Program (10 - 12th graders) UF 2010} \end{array}$ |  |
|--|--|--|
| University<br>Service                          | – Neuroscience Planning Committee (Chairs: John Jeka/Anna Klintsova)8/2019–present   |  |
| ECE<br>Department<br>Service                   | <ul> <li>Member, ECE Strategic Planning Committee (Chair: Jamie Phillips) Fall 2020-present</li> <li>IEEE Student Chapter Branch Counselor 5/2019-present</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> <li>Representative, Delaware Decision Days (undergraduate visit day) 2× in Spring 2019</li> </ul>   |  |
| CIS<br>Department<br>Service                   | <ul> <li>Faculty Search Committee, Computer &amp; Information Sciences</li> <li>(Chair: Chien-Chung Shen; search resulted in 3 tenure-track faculty hires.)</li> </ul>   |  |
| Data Science<br>Institute<br>Service           | <ul> <li>Data Science Community Hour (faculty advisor)</li> <li>Technology &amp; Data Analytics Career Meetup (DSI Representative)</li> <li>Data Science Symposium Planning Committee</li> <li>(Chairs: Greg Dobler &amp; Zachary Collier)</li> <li>Mastering Data Science and Statistical Analysis Information Session</li> <li>Mastering Data Science and Statistical Analysis Information Session</li> <li>Mastering Data Science and Statistical Analysis Information Session</li> </ul>   |  |
| Previous<br>Leadership<br>and Service<br>Roles | <ul> <li>Student Senator, University of Florida</li> <li>Volunteer, Engineering Recruitment Weekend, University of Florida</li> <li>President, Omaha Student Chapter</li> <li>Delegate, Peter Kiewit Institute, University of Nebraska</li> <li>Mentor, Scott Scholars (undergraduate)</li> <li>Volunteer, Nebraska Academic Decathlon (9-12th graders)</li> <li>Member, Nebraska Coalition for Juvenile Justice</li> <li>2011–2012</li> <li>2010–2014</li> <li>2010–2014</li> <li>2007–2009</li> <li>2006–2009</li> <li>2006–2008</li> <li>2003–2007</li> </ul>   |  |
| Professional<br>Involvement                    | - IEEE (Institute for Electrical and Electronics Engineers)2006–PresentSignal Processing Society2013–PresentEngineering in Medicine and Biology Society (EMBS)2010–PresentUniversity of Delaware Student Branch Counselor5/2019–Present  |  |
| Academic<br>Service<br>(Reviewer)              | <ul> <li>NSF Reviewer 2021</li> <li>IEEE Transactions on Automatic Control</li> <li>IEEE Transactions on Neural Networks and Learning Systems</li> <li>2015- (8× in 2020)</li> <li>IEEE Transactions on Knowledge Data Engineering</li> <li>2017- (1× in 2020)</li> <li>IEEE Transactions on Signal Processing</li> <li>I× in 2019, 1× in 2020</li> <li>IEEE Access</li> <li>2× in 2019</li> <li>IEEE Transactions on Biomedical Engineering</li> <li>2014, 2018</li> <li>AAAI 2021/2020/2018; ICLR 2021; ICML 2021/2019; NeurIPS 2020/2019/2018</li> <li>ICASSP 2021/2020/2019/2018/2009; MLSP 2020/2019/2018</li> <li>IEEE EMBS NER 2021/2019/2017/2013</li> <li>EMNLP 2018</li> </ul>   |  |
| Воок   |  |  |

## CHAPTER

A. J. Brockmeier

|                     | A. J. Brockmeier and J. C. Príncipe, "Decoding algorithms for brain machine interfaces,"<br>in <i>Neural Engineering</i> , 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 an<br>methods using calibrated metrics and optimal time-series decomposition," 1/14/2020.  |  |
| Journal<br>Articles | E. N. Hamulyák, A. J. Brockmeier, J. D. Killas, S. Ananiadou, S. Middeldorp, and A. M. Leroi, "Women's health in <i>The BMJ</i> : a data science history," <i>BMJ Open</i> , 10:e039759, 2020.  |  |
|                     | X. Evangelopoulos, A. J. Brockmeier, T. Mu, J. Y. Goulermas, "Circular object arrangement<br>using spherical embeddings," <i>Pattern Recognition</i> , 103(107192), 2020.   |  |
|                     | A. J. Brockmeier, M. Ju, P. Przybyła, and S. Ananiadou, "Improving reference prioritisation<br>with PICO recognition," <i>BMC Medical Informatics and Decision Making</i> , 19(256), 2019.  |  |
|                     | P. Przybyła, A. J. Brockmeier, and S. Ananiadou, "Quantifying risk factors in medical reports with a context-aware linear model," <i>Journal of the American Medical Informatics Association</i> , 26(6):537–546, 2019.   |  |
|                     | X. Evangelopoulos, A. J. Brockmeier, T. Mu, J. Y. Goulermas, "Continuation methods for<br>approximate large scale object sequencing," <i>Machine Learning</i> , 108(4):595–626, 2019.   |  |
|                     | P. Przybyła, A. J. Brockmeier, G. Kontonatsios, MA. Le Pogam, J. McNaught, E. von Elm,<br>K. Nolan, and S. Ananiadou, "Prioritising references for systematic reviews with Robot-<br>Analyst: A user study," <i>Research Synthesis Methods</i> , 9(3):470–488, 2018.  |  |
|                     | A. J. Brockmeier, T. Mu, S. Ananiadou, and J. Y. Goulermas, "Self-tuned descriptive<br>document clustering using a predictive network," <i>IEEE Transactions on Knowledge and<br/>Data Engineering</i> , 30(10):1929–1942, 2018.  |  |
|                     | A. J. Brockmeier, T. Mu, S. Ananiadou, and J. Y. Goulermas, "Quantifying the informa-<br>tiveness of similarity measurements," <i>Journal of Machine Learning Research</i> , 18(76):1–61,<br>2017.  |  |
|                     | G. Kontonatsios, A. J. Brockmeier, P. Przybyła, J. McNaught, T. Mu, J. Y. Goulermas, and<br>S. Ananiadou, "A semi-supervised approach using label propagation to support citation<br>screening," <i>Journal of Biomedical Informatics</i> , 72:67–76, 2017.   |  |
|                     | J. S. Choi, A. J. Brockmeier, D. McNiel, L. von Kraus, J. C. Principe, and J. T. Francis,<br>"Eliciting naturalistic cortical responses with a sensory prosthesis via optimized micros-<br>timulation," <i>Journal of Neural Engineering</i> , 13(5):056007, 2016.  |  |
|                     | A. J. Brockmeier and J. C. Principe, "Learning recurrent waveforms within EEGs," <i>IEEE Transactions on Biomedical Engineering</i> , 63(1):43–54, 2016.  |  |
|                     | M. S. Emigh, E. G. Kriminger, A. J. Brockmeier, J. C. Príncipe, and P. M. Pardalos,<br>"Reinforcement learning in video games using nearest neighbor interpolation and metric<br>learning," <i>IEEE Transactions on Computational Intelligence and AI in Games</i> , 8(1):56–<br>66, 2016.  |  |
|                     | J. C. Principe and A. J. Brockmeier, "Representing and decomposing neural potential sig-<br>nals," <i>Current Opinion in Neurobiology</i> , 31:13–17, 2015.   |  |
|                     | A. J. Brockmeier, J. S. Choi, E. G. Kriminger, J. T. Francis, and J. C. Principe, "Neural decoding with kernel-based metric learning," <i>Neural Computation</i> , 26(6):1080–1107, 2014.   |  |
|                     | 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," <i>Computational Intelligence and Neuroscience</i> , Article ID 87016, 2014.  |  |
|                     | 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," <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 21(4):532–543, 2013. |  |

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.

Refereed Conference Proceedings (\* indicates advisee)

- C. H. Mendoza-Cardenas<sup>\*</sup> and A. J. Brockmeier, "Searching for waveforms on spatiallyfiltered epileptic ECoG", submitted to *IEEE EMBS Conference on Neural Engineering* (NER) 2021, (in press).
- H. Baker<sup>\*</sup> and A. J. Brockmeier, "Local and sparse linear causal models for fMRI restingstate signals", submitted to *IEEE EMBS Conference on Neural Engineering (NER) 2021*, (in press).
  - X. Evangelopoulos, A. J. Brockmeier, T. Mu, and J. Y. Goulermas, "A graduated nonconvexity relaxation for large scale seriation," in SIAM Int. Conf. Data Mining (SDM), 2017.
  - 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.
  - 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.
  - 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.
  - A. J. Brockmeier, E. Santanna, L. Sanchez Giraldo, and J. Principe, "Projentropy: Using entropy to optimize spatial projections," in *IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2014.
  - 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.
  - 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.
  - 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.
  - 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.
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  - 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.
  - B. H. Fadlallah, A. J. Brockmeier, S. Seth, L. Li, A. Keil, and J. C. Príncipe, "An association framework to analyze dependence structure in time series," in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2012.
  - 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.

- 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.
- S. Craciun, A. J. Brockmeier, A. D. George, H. Lam, and J. C. Principe, "An informationtheoretic approach to motor action decoding with a reconfigurable parallel architecture," in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2011.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 PEERA. J. Brockmeier, Y. Karahan\*, C. C. Claros\*, C. H. Mendoza-Cardenas\*, M. S. Emigh,<br/>and L. G. Sanchez Giraldo, "Max-sliced Bures Distance for Interpreting Discrepancies,"<br/>https://openreview.net/forum?id=D2Fp\_qheYu, 2021.

- (\* INDICATES ADVISEE)
  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.
- CONFERENCE K. Nolan, S. Ananiadou, P. Przybyła, A. J. Brockmeier, "RobotAnalyst: An online system ABSTRACTS to support citation screening in evidence reviewing," at *Global Evidence Summit*, Cape Town, South Africa, Sept. 2017.
  - 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, July 2014.
  - 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, Oct. 2013.
  - 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, April 2013.
  - E. K. Anderson, A. J. Brockmeier, N. G. Reyero, 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, Nov. 2010.

INVITED Session Chair, "DARWIN for Physics, Engineering, and Computer Science," *DARWIN* TALKS/PANELS *Computing Symposium*, University of Delaware Data Science Institute, 2/12/2021.

- "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.
- Panelist, "Breakout session: Data science and precision medicine," 2019 Delaware IDeAs Symposium, Newark, Delaware, 11/7/2019.