Da-Inn Erika Lee

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Department of Biostatistics and Medical Informatics School of Medicine and Public Health University of Wisconsin – Madison		Wisconsin Institute for Discovery Room 3241B-1 330 North Orchard Street Madison WI 53715
Education		
2023, Expected	Ph.D. in Biomedical Data Science, University of Wisconsin - Madison	
2017	M.Sc. in Computer Sciences, University of Wisconsin - Madison	
2011	B.Sc. in Cellular Molecular Biolog	gy, University of Michigan – Ann Arbor
Research & Professional Experience		
2018 – Current	Research Assistant under supervision University of Wisconsin, Wisconsin	ion of Sushmita Roy in Institute for Discovery, Madison WI
2014 – 2018	Senior Analytics Consultant University of Wisconsin Hospital	& Clinics, Madison WI
2013 – 2014	IT Support and Project Assistant University of Wisconsin Graduate	School, Madison WI
2011 – 2013	Software Tester & Quality Assurate Epic, Verona WI	nce
2007 – 2011	Research & Laboratory Assistant u University of Michigan Health Sys	under supervision of John J. LiPuma stem, Ann Arbor MI
Talks		
2019 Le	organization matrix factorization	scovering structural units of chromosomal n and graph regularization. Talk at the r Molecular Biology/European Conference //EECB), Basel, Switzerland.
2019 Le		scovering structural units of chromosomal n and graph regularization. Talk at the natics (GLBIO), Madison, WI.
2018 Le	factorization method to discover of	A graph-regularized non-negative matrix organizational units of chromosomes. Talk ms for Molecular Biology (ISMB), Chicago,
2018 Le	ee, D. & Kofoot, J. (2018, April). <i>It</i>	takes a village to raise a dashboard: how a

the meeting of Qonnections, Orlando, FL.

distributed stakeholder model empowers self-service analytics. Invited talk at

Teaching & Outreach

- 2019 Guest lecture in Special Topics in Computational Network Biology, University of Wisconsin Madison.
 - Title: *Integrating single cell gene expression datasets*
 - Audience: graduate students and undergraduate upperclassmen from diverse fields (computer sciences, statistics, bioinformatics, etc.)
 - Materials: github.com/Roy-lab/compnetbio-singlecell-integration
- 2019 Scratch coding club leader at Falk Elementary School, Madison, WI.
 - Co-leaders: Fnu Srujana, Chung-an Huang
 - Club members: 4th and 5th grade students from diverse socioeconomic backgrounds in Madison Metropolitan School District
 - Example Scratch projects: scratch.mit.edu/studios/25419393/

Tutorials

- Lee, D., Baur, B., Liu, X., & Ward, H. (2019, May). Higher Understanding with Lower Dimensions: Tutorial on Dimension Reduction Methods on Biomedical Data. Tutorial at the meeting of Great Lakes Bioinformatics (GLBIO), Madison, WI. [dimension-reduction.github.io]
- 2019 Lee, D. & Liu, L. (2019, April). *WACM Explains: Machine Learning*. Tutorial for the Women in Association for Computing Machinery (WACM), Madison, WI. [github.com/dyneofdata/wacm-ml-workshop]

Mentoring

- Mentor for Maydm middle school programs: 'STEM Power is Girl Power (STEM Sampler)' and 'Wonderful World of Web Development'
 - Mentees: a group of middle school students participating in online summer camps through Maydm, a Madison-based nonprofit organization providing girls and youth of color in grades 6-12 with skill-based training for the technology sector
 - Participated in weekly Zoom mentor pods, provided feedback for Micro:bit, Spherobot, and website projects, and generally had a blast.
- 2019 Mentor for undergraduate research project
 - Mentee: Bochao Li
 - Project title: Applying GRiNCH to Hi-C data from multiple developmental windows in rat model of breast cancer
 - Defined project scope, weekly milestones and goals. Weekly review and feedback of progress and results.
- 2016 Mentor for undergraduate students in Women in Association for Computing Machinery (WACM)
 - Mentees: undergraduate students in Computer Sciences at UW-Madison
 - Weekly office hours for career path discussion and review of resumes and/or graduate school applications. Weekly newsletter with academic and career-related resources.

Poster Presentations

- 2018 Lee, D. & Roy, S. (2018, December). GRINCH: Discovering structural units of chromosomes with graph-regularized matrix factorization. Poster presented at the meeting of Research in Computational Molecular Biology (RECOMB)/ Regulatory and Systems Genomics with DREAM Challenges (RSGDREAM), New York, NY.
- 2018 Lee, D. & Roy, S. (2018, July). A graph-regularized non-negative matrix factorization method to discover organizational units of chromosomes. Poster presented at the meeting of Intelligent Systems for Molecular Biology (ISMB), Chicago, IL.
- 2018 Lee, D., Becker, A.M., Stephenson, L.L., & Turner, C.R. (2018, January). *Self-service reporting for quantitative provider practice evaluation*. Poster presented at the meeting of American Society of Anesthesiologists (ASA) Practice Management, New Orleans, LA.
- 2018 Lee, D. & Turner, C.R. (2018, January). *Operating Room (OR) Key Performance Indicator (KPI) self-service reporting*. Poster presented at the meeting of American Society of Anesthesiologists (ASA) Practice Management, New Orleans, LA.

Awards & Honors

2019	Honorable Mention for Best Talk at Great Lakes Bioinformatics (GLBIO)
2019, 2018	Student Research Grants Competition Travel Award
2009	Hopwood Underclassmen Fiction Award
2009	James B. Angell Scholar
2008	William J. Branstorm Freshman Prize
2007 - 2010	University Honors

Activities & Affiliations

2019	Reviewer for NeurIPS MLCB 2019
2019	Reviewer for RSGDREAM 2019
2019	Reviewer for ACM-BCB 2019
2019	Reviewer for ISMB/EECB 2019
2018 – Current	Member of International Society for Computational Biology (ISCB)
2017	Reviewer for RSGDREAM 2017
2017	Reviewer for NeurIPS MLCB 2017
2016 - 2017	Member of WACM, UW-Madison's student chapter for ACM-W

Technical Skills

Database & systems SQL (Oracle, Microsoft, Teradata), Hadoop, Spark, Linux

Programming languages Python, C++, Java, R, MATLAB, Julia

Data visualization QlikView/Qlik Sense, Tableau