Ana Stanescu

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PROFESSIONAL APPOINTMENTS

 Assistant Professor of Computer Science 2017 Icahn Institute of Genomics and Multiscale Biology, Icahn School of Medicine at Mount Sinai Department of Genetics and Genomic Sciences, New York, NY Postdoctoral Research Fellow in Machine Learning and Computational Biology 2015 EDUCATION Ph.D., Computer Science Kansas State University, Computing and Information Sciences Department, Manhattan, KS Dissertation: "Semi-supervised Learning for Biological Sequence Classification" M.S., Computer Science – Secure Software Systems James Madison University, Computer Science Department, Harrisonburg, VA B.S., Informatics Romanian American University, Faculty of Managerial Informatics, Bucharest, Romania 	
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•	Ana Stanescu , Jeong Chang Seong, Yubin Lee, and Chul Sue Hwang – A Picture of Geography Revealed by a Keyword Network Analysis of the 2020 AAG Conference . In: <i>Journal of the Korean Geographical Society, Vol. 56, No. 3, pages 177-187. (JKGS 2022)</i>	2022
•	Sanghoon Ji, Jeong Seong, Ana Stanescu, Chul Sue Hwang, Yubin Lee – Construction of spatio-temporal data and analysis of congestion patterns using real-time traffic information from Google - Case of Montgomery County, Maryland, USA In: Journal of the Korean Geographical Society, Vol. 56, No. 3, pages 265 - 276	2021
•	 Youngho Lee, Yubin Lee, Jeong Seong, Ana Stanescu, Chul Sue Hwang – A Comparison of Network Clustering Algorithms in Keyword Network Analysis: A Case Study with Geography Conference Presentations. In: International Journal of Geospatial and Environmental Research, Vol. 7, No. 1, Article 1 (IJGER2020) 	2020
•	 Yubin Lee, Youngho Lee, Jeong Seong, Ana Stanescu, Taegun Hwang, Chul Sue Hwang – Analysis of GIS Research Trends in US with AAG Conference Presentations from 2000-2019. In: The Geographical Journal of Korea, Vol. 53, No. 4, pp. 495-508 	2020
•	Fourati S, Talla A, Mahmoudian M, Burkhart JG, Klen R, (10 authors), Ana Stanescu , Vogel R, The Respiratory Viral DREAM Challenge Consortium, Pandey G, (6 authors), Mangravite LM, Sieberts SK. – A crowdsourced analysis to identify ab initio molecular signatures predictive of susceptibility to viral infection. In: <i>Nature Communications</i> (9:4418)	2018
•	Ana Stanescu and Doina Caragea – An empirical study of self-training and data balancing techniques for splice site prediction In: International Journal of Bioinformatics Research and Applications, Vol. 13, No. 1, pp. 40-61	2017
•	Ana Stanescu, Karthik Tangirala, and Doina Caragea – Predicting Alternatively Spliced Exons Using Semi-Supervised Learning In: International Journal of Data Mining and Bioinformatics; Volume 14, No. 1, pp. 1-21	2016
•	Ana Stanescu and Doina Caragea – An empirical study of ensemble-based semi- supervised learning approaches for imbalanced splice site datasets. In: BMC Systems Biology; Volume 9, Supplement 5, S1	2015

Refereed Conference Proceedings Papers

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•	Steven Benzel, Ana Stanescu, and Ping Ye – SOTU: A Motivational Example for Data Science Courses	2024
	In: The Annual ACM Southeast Conference (ACM-SE 2024) Marietta, GA	
•	Sanghoon Ji, Jeong Seong, Yubin Lee, Ana Stanescu, Chul Sue Hwang – Rush Hour Crashes and Speeding Analysis with Traffic Big Data	2020
	In: Sustainable Development & The Future, US-Korea Conference (UKC 2020)	
•	Steven Benzel and Ana Stanescu – Histogram methods for unsupervised clustering. In: <i>The Annual ACM Southeast Conference (ACM-SE 2020) Tampa,</i> FL	2020
•	Jonathan Corley, Ana Stanescu, Lewis Baumstark, Michael Orsega – Paper Or IDE? The	2020
	Impact of Exam Format on Student Performance in a CS1 Course.	
	In: The 51st ACM Technical Symposium on Computer Science Education Proceedings (ACM SIGCSE 2020), Portland, OR	
•	Ana Stanescu and Gaurav Pandey – Learning parsimonious ensembles for unbalanced	2017
	computational genomics problems.	
	In: Pacific Symposium on Biocomputing (PSB 2017) Kohala Coast, Big Island, HI	
•	Ana Stanescu, Karthik Tangirala, and Doina Caragea – Study of transductive learning and	2016
	unsupervised feature construction methods for biological sequence classification.	
	In: Proceedings of the International Symposium on Network Enabled Health Informatics, Biomedicine and	
	Bioinformatics, part of the Proceedings of the 2016 IEEE/ACM International Conference on Advances in	
	Social Networks Analysis and Mining (ASONAM 2016) San Francisco, CA (Best Paper Award)	

•	Ana Stanescu and Doina Caragea – Transductive Learning Approaches for Predicting Cassette Exons.	2015
	In: Proceedings of the Conference on Computational Intelligence in Bioinformatics and Computational Biology (IEEE CIBCB 2014), Niagara Falls, Canada [Regular Paper]	
•	Ana Stanescu and Doina Caragea – Ensemble-based Semi-supervised Learning Approaches for Imbalanced Splice Site Datasets.	2014
	In: Proceedings of the 2014 International Conference on Bioinformatics and Biomedicine (IEEE BIBM 2014), Belfast, United Kingdom	
•	Ana Stanescu and Doina Caragea – Semi-supervised Self-training Approaches for Imbalanced Splice Site Datasets.	2014
	In: Proceedings of the 6 th International Conference on Bioinformatics and Computational Biology (BICoB 2014), Las Vegas, NV [Regular Paper]	
•	Ana Stanescu, Swapnil Nagar, Doina Caragea – A Hybrid Recommender System: User Profiling from Keywords and Ratings. In: Proceedings of the 2013 IEEE/WIC/ACM International Conference on Web Intelligence (IEEE WI)	2013
•	Srilaxmi Cheeti, Ana Stanescu, and Doina Caragea – Cross-Domain Sentiment Classification Using an Adapted Naïve Bayes Approach and Features Derived from Syntax Trees.	2013
	In: Proceeding of the 5 th International Conference on Knowledge Discovery and Information Retrieval (KDIR 2013), Vilamoura, Portugal, [Acceptance rate 39%]	
•	Ana Stanescu and Doina Caragea – Semi-supervised Learning of Alternatively Spliced Exons Using Expectation Maximization Type Approaches. In: Proceedings of the 3rd International Conference on Bioinformatics Models, Methods and Algorithms (BIOINFORMATICS2012), Vilamoura, Algarve, Portugal (SciTePress Digital Library)	2012
Other 7	Fechnical or Data Publications	
•	Mautusi Mitra and <u>Ana Stanescu</u> – Complete Genome Sequence of <i>Acidovorax temperans</i> strain LMJ from a contaminated <i>Chlamydomonas reinhardtii</i> culture plate. In: DOE KBase (Department of Energy Systems Biology Knowledgebase) <u>https://kbase.us/n/161632/357/</u>	2023
•	https://commons.datacite.org/doi.org/10.25982/161632.357/2228677 Mautusi Mitra and <u>Ana Stanescu</u> – <i>Microbacterium sp. Clip185</i> chromosome, complete	2023
	genome: <u>https://www.ncbi.nlm.nih.gov/nuccore/NZ_CP117996.1</u> (comprises 1 sequence) In: NCBI (National Center for Biotechnology Information)	
•	Mautusi Mitra and <u>Ana Stanescu</u> – <i>Acidovorax temperans</i> strain <i>LMJ</i> chromosome, complete genome: <u>https://www.ncbi.nlm.nih.gov/nuccore/CP117193.1</u> (comprises 3 sequences) In: <i>NCBI (National Center for Biotechnology Information)</i>	2023
•	Mautusi Mitra and <u>Ana Stanescu</u> – <i>Sphingobium yanoikuyae</i> strain <i>CC4533</i> chromosome, complete genome: <u>https://www.ncbi.nlm.nih.gov/nuccore/CP115456.1</u> (comprises 5 sequences) In: <i>NCBI (National Center for Biotechnology Information)</i>	2023
•	Jeong Chang Seong, Sanghoon Ji, Ana Stanescu , and Chul Sue Hwang – What will be presented at the 2021 AAG Meeting? [article] In: <i>The American Association of Geographers Newsletter, April 2, 2021</i>	2021
•	Jeong Chang Seong, Chul Sue Hwang, Ana Stanescu , Yubin Lee, and Youngho Lee – What will be presented at the 2020 AAG Meeting? [DOI: <u>10.14433/2017.0068</u>] In: <i>The American Association of Geographers Newsletter, February 25, 2020</i>	2020
•	Ana Stanescu, Ramon A. Mata-Toledo, Pranshu Gupta – Machine Learning In: McGraw-Hill Education [Research Review in [AccessScience]	2018
•	Pranshu Gupta, Ana Stanescu, Ramon A. Mata-Toledo – Internet of Things In: McGraw-Hill Education [Research Review in <u>AccessScience]</u>	2018
•	Ana Stanescu – XML (Extensible Markup Language) In: McGraw-Hill Education Encyclopedia/Yearbook of Science & Technology [Research Review in <u>AccessScience</u>]	2014

Posters and Talks

•	Jeong Seong, Yunkik Kim, Hyewon Goh, Ana Stanescu – Development of a Traffic Congestion Index from Spatiotemporal Big Data for Urban Transportation Research and Applications	2023
•	In: AAG Annual Meeting (AAG 2023) Yunkik Kim, Jeong Seong, Hyewon Goh, Ana Stanescu – Modeling the Probabilities of Vehicle Crashes Using Machine Learning Methods with Congestion Amounts and Spatiotemporal Features at Montgomery County, Maryland In: AAG Annual Meeting (AAG 2023)	2023
•	Hyewon Goh, Jeong Seong, Yunkik Kim, Ana Stanescu – Does Traffic Congestion Increase Vehicle Crashes? A Regional Scale Study with a Novel Congestion Index and Machine Learning Methods In: AAG Annual Meeting (AAG 2023)	2023
•	Mautusi Mitra, Ana Stanescu, Kevin Nguyen, Taylor Berry – Whole genome sequencing of a novel bacterial strain isolated from a contaminated green-micro algal culture plate provides insight into its metabolome involved in heavy metal tolerance and xenobiotic biodegradation.	2022
•	In: International Seminar on Plants and Microbes: Health & Food (12/28-29/2022) Calcutta, India Seorim Cho, Hyeokjin Hong, Hyunmin Kim, JC Seong, Ana Stanescu, Chul Sue Hwang – Detecting Water Quality Changes by Landsat 8 OLI: A Case Study of Taedong River, North Korea	2022
•	In: AAG Annual Meeting (AAG 2022) Hyeokjin Hong, Hyunmin Kim, Seorim Cho, JC Seong, Ana Stanescu , Chul Sue Hwang – Traffic Big-data Analysis with Google Maps: Atlanta, Georgia, 2021 In: <i>76th Annual Meeting of the Southeastern Division of the American Association of Geographers</i>	2021
•	(SEDAAG 2021) Florence, AL Youngho Lee, Yubin Lee, Ana Stanescu , Jeong Seong – Summarizing the 2019 AAG Conference Presentations Using Keyword Network Analysis. In: <i>The 74th Annual Meeting of the Southeastern Division of the American Association of Geographers</i> (SEDAAG 2019) Wilmington, NC	2019
•	Adel Abunawass, Ana Stanescu , Alexandra Young, and Edwin Rudolph – It Taketh a Village: Social Equity and Educational Access in Higher Ed. In: <i>Conference on Meaningful Living and Learning in a Digital World;</i> February 4-6, 2019, Savannah, GA	2019
•	Ana Stanescu and Gaurav Pandey – Integrating heterogeneous predictive models using Reinforcement Learning. In: 26 th Conference on Intelligent Systems for Molecular Biology (ISMB)- Machine Learning in Computational and Systems Biology (MLCSB) track; July 6-11, 2018, Chicago, IL	2018
•	[20-minute talk and poster presentation, acceptance rate 12%] Ana Stanescu , Mehmet Eren Ahsen, Robert Vogel, Gustavo Stolovitzky, Solveig K. Sieberts, and Gaurav Pandey – Crowdsourced ensembles for the DREAM Respiratory Viral (RV) Challenge .	2017
•	In: RECOMB/ISCB Conference on Regulatory and Systems Genomics, with DREAM Challenges (RECOMB/ISCB RSG 2017) November 19-22, 2017, New York, NY Ana Stanescu and Gaurav Pandey – Learning parsimonious ensembles for biomedical	2016
	prediction problems and DREAM challenges. In: RECOMB/ISCB Conference on Regulatory and Systems Genomics with DREAM Challenges and Cytoscape Workshop (RECOMB/ISCB 2016)	_
•	Ana Stanescu, Doina Caragea – Semi-supervised learning of alternatively spliced exons. In: <i>Proceedings of the 2011 Regional ACM/MINK-WIC Conference</i> , October 7-8, 2011, Kansas City, MO (Best Poster Award)	2011
•	Ana Stanescu, Doina Caragea, and Susan J. Brown – Semi-supervised learning approaches for biological sequences. In: <i>ACM/CRA-W Grad Cohort Workshop</i> , April 1-2, 2011, Boston, MA	2011

PROFESSIONAL SERVICE

PROFESSIONAL SERVICE	
Grant Panel Reviewer	
 NSF Computer and Information Science and Engineering (CISE) 	2021
Journal Article Reviewer	
 IEEE Transactions on Neural Networks and Learning Systems 	2018 - present
 ACM Transactions on Knowledge Discovery from Data 	2018
IEEE Transactions on Cybernetics	2016, 2018, 2023
IEEE Transactions on Computational Biology and Bioinformatics	2017
• IEEE Access	2017
Conference Article Sub-reviewer	
IEEE International Conference on Data Science and Advanced Analytics	2019 - present
ISMB European Conf. on Computational Biology	2019
 IJCAI Bioinformatics and Artificial Intelligence Workshop 	2016
ACM Conference on Bioinformatics, Computational Biology, and Health Informatics	2015
 IEEE International Symposium on Bioinformatics Research and Applications 	2012 - 2015
 IEEE International Conf. on Bioinformatics and Biomedicine 	2013
IEEE International Conf. on Computational Advances in Bio and Medical Sciences	2012
INVITED TALKS	
• The University System of Georgia Women in Technology (WIT) Summit, Carrollton, GA	2018
• Speaker Series in the Computer Science Dept. at James Madison University, Harrisonbus	rg, VA 2014
CERTIFICATES	
NASA's Applied Remote Sensing Training Program	
Certification of completion - <u>Using Google Earth Engine for Land Monitoring Applica</u>	ations 2021
United States Committee on National Security Systems	
Certification for Information Systems Security Professionals	2008
OTHER	
Outstanding Undergraduate Teacher	
• Based on the votes of the Computer Science undergraduate students (AY2023 – 2024)	2024
• Based on the votes of the Computer Science undergraduate students (AY2020 – 2021)	0001