

# Ana Stanescu

<http://www.westga.edu/~astanesc/>  
[astanesc@westga.edu](mailto:astanesc@westga.edu)

**Office Address:** University of West Georgia, 1601 Maple Street, Carrollton, GA 30118  
 Office: TLC Building, Room 2-217  
 Phone: 678.839.6294; Fax: 678.839.6486

## CURRENT POSITION

---

**Assistant Professor** of Computer Science, University of West Georgia

- Courses taught: August 2017  
- present
  - CS 1020: Computers and Society (online)
  - CS 1030: Intro to Computer Concepts (online)
  - CS 1301: Computer Science 1
  - CS 1302: Computer Science 2
  - CS 3270: Intelligent Systems
  - CS 3280: Systems Programming
  - CS 4225: Distributed and Cloud Computing
  - CS 4981: Independent Study
  - CS 4985: Special Topics – Introduction to Machine Learning

## EDUCATION

---

- Postdoctoral Fellowship** in Machine Learning and Computational Biology 2017
  - **Icahn School of Medicine at Mount Sinai, Icahn Institute of Genomics and Multiscale Biology**, Department of Genetics and Genomic Sciences, New York, NY  
 Development of novel machine learning algorithms to extract enhanced predictions and actionable knowledge from crowdsourcing operations
- Ph.D., Computer Science**
  - **Kansas State University**, Computing and Information Sciences Department, Manhattan, KS 2015  
 Dissertation: “Semi-supervised Learning for Biological Sequence Classification”
- M.S., Computer Science – Secure Software Systems**
  - **James Madison University**, Computer Science Department, Harrisonburg, VA 2008
- B.S., Economic Informatics**
  - **Romanian-American University**, Faculty of Managerial Informatics, Bucharest, Romania 2006

## GRANTS

---

- High-Potential Individuals Global Training Program Subaward. Funding Agency: Ministry of Science & Information and Communication Technology (ICT), Planning & Evaluation via Kyung Hee University (KHU) for 2019 – 2021; J.C. Seong (PI), **Ana Stanescu (co-PI)** 2019 - 2022

## AWARDS

---

- Young Investigator Award** 2018
  - National Institutes of Health - Big Data to Knowledge (NIH/BD2K)  
 26<sup>th</sup> Conference on Intelligent Systems for Molecular Biology (ISMB) Chicago, IL
- Best Paper Award** 2016
  - 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

## PUBLICATIONS

### Refereed Journal Articles

- 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.** 2020  
In: *International Journal of Geospatial and Environmental Research*, Vol. 7, No. 1, Article 1
- 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.** 2020  
In: *The Geographical Journal of Korea*, Vol. 53, No. 4, pp. 495-508
- 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: *Nature Communications* ([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* 2015; Volume 9, Supplement 5, S1

### Refereed Conference Papers

- 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: The Annual ACM Southeast Conference (ACMSE 2020) Tampa, FL [Acceptance rate: 45%] 2020
- Jonathan Corley, **Ana Stanescu**, Lewis Baumstark, Michael Orsega – **Paper Or IDE? The 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 2020
- **Ana Stanescu** and Gaurav Pandey – **Learning parsimonious ensembles for unbalanced computational genomics problems.** In: *Pacific Symposium on Biocomputing (PSB 2017) Kohala Coast, Big Island, HI* 2017
- **Ana Stanescu**, Karthik Tangirala, and Doina Caragea – **Study of transductive learning and 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**) 2016
- **Ana Stanescu** and Doina Caragea – **Transductive Learning Approaches for Predicting Cassette Exons.** In: *Proceedings of the Conference on Computational Intelligence in Bioinformatics and Computational Biology (IEEE CIBCB 2014)*, Niagara Falls, Canada [Regular Paper] 2015
- **Ana Stanescu** and Doina Caragea – **Ensemble-based Semi-supervised Learning Approaches for Imbalanced Splice Site Datasets.** In: *Proceedings of the 2014 International Conference on Bioinformatics and Biomedicine (IEEE BIBM 2014)*, Belfast, United Kingdom 2014
- **Ana Stanescu** and Doina Caragea – **Semi-supervised Self-training Approaches for Imbalanced Splice Site Datasets.** In: *Proceedings of the 6th International Conference on Bioinformatics and Computational Biology (BICoB 2014)*, Las Vegas, NV [Regular Paper] 2014
- **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**. In: *Proceeding of the 5<sup>th</sup> International Conference on Knowledge Discovery and Information Retrieval (KDIR 2013)*, Vilamoura, Portugal, [Acceptance rate 39%] 2013
- **Ana Stanescu** and Doina Caragea – **Semi-supervised Learning of Alternatively Spliced Exons Using Expectation Maximization Type Approaches**. 2012
- In: *Proceedings of the 3rd International Conference on Bioinformatics Models, Methods and Algorithms (BIOINFORMATICS2012)*, Vilamoura, Algarve, Portugal (SciTePress Digital Library)

#### Talks and Posters

- Youngho Lee, Yubin Lee, **Ana Stanescu**, Jeong Seong – **Summarizing the 2019 AAG Conference Presentations Using Keyword Network Analysis**. 2019  
In: The 74th Annual Meeting of the Southeastern Division of the American Association of Geographers (SEDAAG 2019) Wilmington, NC
- Adel Abunawass, **Ana Stanescu**, Alexandra Young, and Edwin Rudolph – **It Taketh a Village: Social Equity and Educational Access in Higher Ed**. In: *Conference on Meaningful Living and Learning in a Digital World*; February 4-6, 2019, Savannah, GA 2019
- **Ana Stanescu** and Gaurav Pandey – **Integrating heterogeneous predictive models using Reinforcement Learning**. In: *26<sup>th</sup> Conference on Intelligent Systems for Molecular Biology (ISMB)-Machine Learning in Computational and Systems Biology (MLCSB) track*; July 6-11, 2018 Chicago, IL [20-minute talk and poster presentation, acceptance rate 12%] 2018
- **Ana Stanescu**, Mehmet Eren Ahsen, Robert Vogel, Gustavo Stolovitzky, Solveig K. Sieberts, and Gaurav Pandey – **Crowdsourced ensembles for the DREAM Respiratory Viral (RV) Challenge**. In: *RECOMB/ISCB Conference on Regulatory and Systems Genomics, with DREAM Challenges (RECOMB/ISCB RSG 2017)* November 19-22, 2017, New York, NY 2017
- **Ana Stanescu** and Gaurav Pandey – **Learning parsimonious ensembles for biomedical prediction problems and DREAM challenges**. In: *RECOMB/ISCB Conference on Regulatory and Systems Genomics with DREAM Challenges and Cytoscape Workshop (RECOMB/ISCB 2016)* 2016
- **Ana Stanescu** and Doina Caragea – **Semi-supervised learning of alternatively spliced exons**. In: *Proceedings of the 2011 Regional ACM/MINK-WTC Conference*, 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**. 2011  
In: *ACM/CRA-W Grad Cohort Workshop*, April 1-2, 2011, Boston, MA

#### Other Refereed Articles

- Jeong Chang Seong, Sanghoon Ji, **Ana Stanescu**, and Chul Sue Hwang – **What will be presented at the 2021 AAG Meeting?** [[article](#)] 2021  
In: The American Association of Geographers Newsletter, April 2, 2021
- Jeong Chang Seong, Chul Sue Hwang, **Ana Stanescu**, Yubin Lee, and Youngho Lee – **What will be presented at the 2020 AAG Meeting?** [DOI: [10.14433/2017.0068](https://doi.org/10.14433/2017.0068)] 2020  
In: The American Association of Geographers Newsletter, February 25, 2020
- **Ana Stanescu**, Ramon A. Mata-Toledo, Pranshu Gupta – **Machine Learning** McGraw-Hill Education [Research Review in [AccessScience](#)] 2018
- Pranshu Gupta, **Ana Stanescu**, Ramon A. Mata-Toledo – **Internet of Things** McGraw-Hill Education [Research Review in [AccessScience](#)] 2018
- **Ana Stanescu** – **XML (Extensible Markup Language)** McGraw-Hill Education Encyclopedia/Yearbook of Science & Technology [Research Review in [AccessScience](#)] 2014

**PROFESSIONAL SERVICE**

---

**Grant Proposal 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
- 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 - 2020
- 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

**INSTITUTIONAL SERVICE**

---

- Committee Member - UWG Diversity, Equity, and Inclusion (CACSI) 2020 - present
- Committee Member - UWG Diversity and Internationalization (COSM) 2018 - 2020
- Association for Computing Machinery UWG Women's Chapter – Faculty Sponsor 2018 - present

**INVITED TALKS**

---

- The University System of Georgia Women in Technology (WIT) Summit, Carrollton, GA 2018
- *Speaker Series* in the Computer Science Department at James Madison University 2014

**CERTIFICATES**

---

**NASA's Applied Remote Sensing Training Program**

- Certification of completion - [Using Google Earth Engine for Land Monitoring Applications](#) 2021

**United States Committee on National Security Systems**

- Certification for Information Systems Security Professionals 2008