Curriculum Vitae

Sherry Sahebi

Associate Professor,
Department of Computer Science,
College of Nanotechnology, Science, and Engineering,
University at Albany – SUNY

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Academic Appointments

Associate Professor, Sep. 2023–present

· Department of Computer Science, University at Albany – State University of New York, Albany, NY

Assistant Professor, Sep. 2016–Aug. 2023

· Department of Computer Science, University at Albany – State University of New York, Albany, NY

Research Interests

My research focuses on machine learning and data mining for human-centered applications, such as educational, recommendation, and health application systems. I develop models and algorithms to efficiently utilize variety and heterogeneity of data in these applications, while dealing with application-specific challenges, such as data uncertainty, sparsity, and temporality. More specific research interests include:

· Educational Data Mining
  · Knowledge Modeling and Performance Prediction: developing deep sequential, matrix and tensor factorization models and algorithms, specifically tailored to accurately and efficiently capture the sequential nature of learner knowledge gain and forgetting, estimate learning material's domain knowledge map, and predict students' future performance.
  · Learner Behavior and Procrastination Modeling: creating discriminative factorization and point process models to distinguish efficient vs. inefficient learning behaviors in online learners, detect temporal procrastination behaviors in learners, and study their effect on learning gain and performance.
  · Personalized Learning: building educational recommender systems that rely on multi-aspect optimization methods to balance between depth and breadth of learning for students.

· Recommender Systems
  · Cross-Domain Recommendation: developing transfer learning, domain adaptation, and generative models to represent user interests across multiple domains and systems for higher-quality suggestions.
  · Recommendation Explanations: building models to explain recommendations to users, e.g., by generating reviews, and studying their effect on user perception of the recommendation systems.
  · Augmenting Recommendation Systems with External Information: building algorithms that embed social connections, external user profiles, or semantic information to better capture user interests.

Education

· Ph.D., Intelligent Systems, Jul. 2016
  · University of Pittsburgh, Pittsburgh, PA

· M.Sc., Intelligent Systems, Jan. 2013
  · University of Pittsburgh, Pittsburgh, PA

· M.Sc., Computer Engineering (Software), Feb. 2009

· University of Tehran, Tehran, Iran

· B.Sc., Computer Engineering (Software), Feb. 2005
· Sharif University of Technology, Tehran, Iran

Research Experience

· ***Founder and Director***, Personalized AI (PersAI) Lab, University at Albany - SUNY Sep. 2016-Present

· ***Graduate Student Researcher***, *Personalized Adaptive Web Systems (PAWS) Lab*, advised by Dr. Peter Brusilovsky, University of Pittsburgh, PA Sep. 2009-Jul. 2016

· ***Graduate Intern***, LinkedIn, Mountain View, CA May. 2013-Aug. 2013

· ***Graduate Intern***, *Language Technologies Institute*, advised by Dr. Jaime Carbonell, Carnegie Mellon University May. 2012-Aug. 2012

· ***Graduate Intern***, *Human Computer Interaction Dept.*, advised by Dr. Robert Kraut and Dr. Aniket (Niki) Kittur, Carnegie Mellon University May. 2011-Aug. 2011

Research Funding

· CAREER: Time-Aware Multi-Objective Recommendation in Online Learning Environments, Award No. 2047500, National Science Foundation $547,705, PI. August 2021 – July 2026

· REU: CAREER: Research Experience for Undergraduate Students, Time-Aware Multi-Objective Recommendation in Online Learning Environments, Award No. 2047500, National Science Foundation $16,000, PI. August 2022 – July 2026

· CyberLearning: Detecting and Predicting Procrastination in Online and Social Learning, Award No. 1917949, National Science Foundation $749,766, co-PI (My share: $482,423). August 2019 – July 2024

· REU: CyberLearning: Research Experience for Undergraduate Students, Detecting and Predicting Procrastination in Online and Social Learning, Award No. 1917949, National Science Foundation $16,000, co-PI (My share: $8,000). August 2021 – July 2023

· AI-Enabled Privacy Control for Emerging Challenges in Intelligent Online Educational Environments, University at Albany–SUNY $25,000. co-PI. December 2020 – December 2021.

· CRII: III: Modeling Student Knowledge and Improving Performance when Learning from Multiple Types of Materials, Award No. 1755910, National Science Foundation $174,669. PI. September 2018 – August 2020

· REU: CRII: III: Research Experience for Undergraduate Students, for Modeling Student Knowledge and Improving Performance when Learning from Multiple Types of Materials, Award No. 1930706, National Science Foundation $15,360. PI. July 2019 – August 2020

· FRAP-A: Hybrid Cross-Domain Recommendation and Explanation, University at Albany–SUNY $10,000, PI. May 2018 – May 2020.

Honors and Awards

· Inventors Recognition Awards, University at Albany - SUNY Jul. 2022

· Junior Faculty Recognition for Early Career Extramural Awards, University at Albany - SUNY Apr. 2022

· Faculty Early Career Development (CAREER) Award, National Science Foundation Aug. 2021

· Junior Faculty Recognition for Early Career Extramural Awards, University at Albany - SUNY Oct. 2019

· NSF CRII Award for early-career PIs, National Science Foundation Sep. 2018

· A&S Fellowship, Intelligent Systems Program, University of Pittsburgh 2014

· ACM SRC Awards for GHC conference 2013

· A&S Fellowship, Intelligent Systems Program, University of Pittsburgh 2009

Publications

An asterisk (*) indicates the author is a student or post-doc researcher directly under my supervision.

Peer-Reviewed Papers

[1] S. Hashemifar* and **S. Sahebi**, "Personalized student knowledge modeling for future learning resource prediction," ," in *The 26th International Conference on Artificial Intelligence in Education (AIED)*," (18.9% Accept. Rate).

[2] S. Zhao* and **S. Sahebi**, "Neighborhood-aware negative sampling for student knowledge and behavior modeling," , pp. 13 374–13 382, in *The 39th Annual AAAI Conference on Artificial Intelligence*, (23.4% Accept. Rate).

[3] **S. Sahebi**, M. Yao*, S. Zhao*, and R. Feyzi-Behnagh, "Moment: Marked point processes with memory-enhanced neural networks for user activity modeling," *ACM Transactions on Knowledge Discovery from Data (TKDD)*, vol. 18, no. 6, pp. 1–32, 2024.

[4] S. Zhao* and **S. Sahebi**, "Discerning canonical user representation for cross-domain recommendation," ACM, pp. 318–328, in *The 18th ACM Recommender Systems (RecSys 2024)*, (22% Accept. Rate).

[5] S. Zhao* and **S. Sahebi**, "Multi-task modeling of student knowledge and behavior," ACM," in *The 33rd ACM International Conference on Information and Knowledge Management (CIKM 2024)*," (23% Accept. Rate).

[6] S. Zhao* and **S. Sahebi**, "Exploring simultaneous knowledge and behavior tracing," *The 17th International Conference on Educational Data Mining*, 2024.

[7] S. Zhao* and **S. Sahebi**, "Towards multi-objective behavior and knowledge modeling in students," *The 32nd ACM Conference on User Modeling, Adaptation and Personalization*, pp. 183–188, 2024.

[8] C. Wang* and **S. Sahebi**, "Continuous personalized knowledge tracing: Modeling long-term learning in online environments," , pp. 2616–2625, in *The Conference on Information and Knowledge Management (CIKM)*, (24% Accept. Rate).

[9] S. Zhao* and **S. Sahebi**, "Graph-enhanced multi-activity knowledge tracing," , pp. 529–546, in *Joint European Conference on Machine Learning and Knowledge Discovery in Databases*, (24% Accept. Rate).

[10] S. Zhao*, **S. Sahebi**, and R. Feyzi-Behnagh, "Curb your procrastination: A study of academic procrastination behaviors," ," in *The 31st Conference on User Modeling, Adaptation and Personalization (UMAP)*," (23% Accept. Rate).

[11] S. Zhao*, C. Wang*, and **S. Sahebi**, "Transition-aware multi-activity knowledge tracing," ," in *in The 2022 IEEE International Conference on Big Data*," (19.2% Accept. Rate).

[12] M. Yao*, S. Zhao*, **S. Sahebi**, and R. Feyzi Behnagh, "Stimuli-sensitive hawkes processes for personalized student procrastination modeling," ," in *The 30th Web Conference (The Web - 21)*," (17.7% Accept. Rate).

[13] C. Wang*, **S. Sahebi**, S. Zhao*, P. Brusilovsky, and L. Moraes, "Knowledge tracing for complex problem solving: Granular rank-based tensor factorization," ," in *The 29th Conference on User Modeling, Adaptation and Personalization (UMAP)*," (23.3% Accept. Rate).

[14] M. Yao*, S. Zhao*, **S. Sahebi**, and R. Feyzi Behnagh, "Relaxed clustered hawkes process for procrastination modeling in moocs," ," in *The 35th AAAI Conference on Artificial Intelligence (AAAI-21)*," (21.4% Accept. Rate).

[15] C. Wang*, S. Zhao*, and **S. Sahebi**, "Learning from non-assessed resources: Deep multi-type knowledge tracing," ," in *The 14th International Conference on Educational Data Mining (EDM-21)*," (22% Accept. Rate).

[16] M. Yao*, **S. Sahebi**, R. Feyzi Behnagh, S. Bursali, and S. Zhao*, "Temporal processes associating with procrastination dynamics," ," in *22nd International Conference on Artificial Intelligence in Education (AIED 2021)*," (23% Accept. Rate).

[17] C. Wang*, **S. Sahebi**, and H. Torkamaan, "Stretch: Stress and behavior modeling with tensor decomposition of heterogeneous data," ," in *The 2021 IEEE/WIC/ACM International Joint Conference On Web Intelligence And Intelligent Agent Technology*," (22.9% Accept. Rate).

[18] M. Mirzaei*, **S. Sahebi**, and P. Brusilovsky, "Sb-dnmf: A structure based discriminative non-negative matrix factorization model for detecting inefficient learning behaviors"," ," in *The 2020 IEEE/WIC/ACM International Joint Conference On Web Intelligence And Intelligent Agent Technology*," (25% Accept. Rate).

[19] T.-N. Doan* and **S. Sahebi**, "Transcrosscf: Transition-based cross-domain collaborative filtering," , pp. 320–327, in *ICMLA 2020 - 19th IEEE International Conference on Machine Learning and Applications*, (25% Accept. Rate).

[20] S. Zhao*, C. Wang*, and **S. Sahebi**, "Modeling knowledge acquisition from multiple learning resource types," in *The 13th International Conference on Educational Data Mining (EDM)*.

[21] M. Yao*, **S. Sahebi**, and R. Feyzi-Behnagh, "Analyzing student procrastination in moocs: A multivariate hawkes approach," in *The 13th International Conference on Educational Data Mining (EDM)*.

[22] M. Mirzaei*, **S. Sahebi**, and P. Brusilovsky, "Detecting trait vs. performance student behavioral patterns using discriminative non-negative matrix factorization," in *The 33rd International FLAIRS Conference*.

[23] T. N. Doan* and **S. Sahebi**, "Rank-based tensor factorization for student performance prediction," in *Proceedings of the 12th International Conference on Educational Data Mining*.

[24] M. Mirzaei*, **S. Sahebi**, and P. Brusilovsky, "Annotated examples and parameterized exercises: Analyzing student's sequential patterns," ," in *The 20th International Conference on Artificial Intelligence in Education*," (23% Accept. Rate).

[25] **S. Sahebi** and P. Brusilovsky, "Student performance prediction by discovering inter-activity relations," ," in *Proceedings of the 11th International Conference on Educational Data Mining*," (15.8% Accept. Rate).

[26] **S. Sahebi**, Y. Lin, and P. Brusilovsky, "Tensor factorization for student modeling and performance prediction in unstructured domain," in *The 9th International Conference on Educational Data Mining*.

[27] **S. Sahebi** and P. Brusilovsky, "It takes two to tango: An exploration of domain pairs for cross-domain collaborative filtering," , pp. 131–138, in *Proceedings of the 9th ACM Conference on Recommender Systems*, (21% Accept. Rate).

[28] **S. Sahebi**, Y. Huang, and P. Brusilovsky, "Predicting student performance in solving parameterized exercises," , in *Intelligent Tutoring Systems*, pp. 496–503.

[29] J. Guerra, **S. Sahebi**, P. Brusilovsky, and Y. Lin, "The problem solving genome: Analyzing sequential patterns of student work with parameterized exercises," , pp. 153–160, in *7th International Conference on Educational Data Mining*, (16.9% Accept. Rate).

[30] **S. Sahebi** and P. Brusilovsky, "Cross-domain collaborative recommendation in a cold-start context: The impact of user profile size on the quality of recommendation," Springer, in *User Modeling, Adaptation, and Personalization*, pp. 289–295.

[31] C. Lopez, R. Farzan, **S. Sahebi**, and P. Brusilovsky, "What influences the decision to participate in audience-bounded online communities?" , in *iConference 2013 Proceedings*, pp. 491–496.

[32] P. Brusilovsky, D. Parra, **S. Sahebi**, and C. Wongchokprasitti, "Collaborative information finding in smaller communities: The case of research talks," , in *6th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2010)*, pp. 1–10.

[33] R. Khosravi, M. Sirjani, N. Asoudeh, **S. Sahebi**, and H. Iravanchi, "Modeling and analysis of reo connectors using alloy," , in *Coordination Models and Languages*, pp. 169–183.

[34] **S. Sahebi**, F. Oroumchian, and R. Khosravi, "An enhanced similarity measure for utilizing site structure in web personalization systems," in *IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT'08)*, , vol. 3, pp. 82–85.

[35] **S. Sahebi**, F. Oroumchian, and R. Khosravi, "Applying and comparing hidden markov model and fuzzy clustering algorithms to web usage data for recommender systems," , in *IADIS European Conference Data Mining*, pp. 179–181.

[36] C. Wang*, **S. Sahebi**, and P. Brusilovsky, "Proximity-based educational recommendations: A multi-objective framework," ," in *The 2nd Workshop on Multi-Objective Recommender Systems (MORS'22)*," (14.3% Accept. Rate).

[37] C. Wang*, **S. Sahebi**, and P. Brusilovsky, "Mochi: an offline evaluation framework for educational recommendations," in *The Workshop on Perspectives on the Evaluation of Recommender Systems (PERSPECTIVES'21)*.

[38] T. N. Doan* and **S. Sahebi**, "Review-based cross-domain collaborative filtering: A neural framework," in *CEUR Workshop Proceedings of the 3rd Workshop on Recommendation in Complex Scenarios*, CEUR-WS, vol. 2449, pp. 23–28.

[39] **S. Sahebi**, P. Brusilovsky, and V. Bobrokov, "Cross-domain recommendation for large-scale data," in *The 1st Workshop on Intelligent Recommender Systems by Knowledge Transfer & Learning (RecSysKTL)*.

[40] **S. Sahebi** and T. Walker, "Content-based cross-domain recommendations using segmented models," , in *Workshop on New Trends in Content-based Recommender Systems (CBRecsys)*, pp. 57–63.

[41] **S. Sahebi**, Y. Huang, and P. Brusilovsky, "Parameterized exercises in java programming: using knowledge structure for performance prediction," , in *The 2nd Workshop on AI-supported Education for Computer Science (AIEDCS)*, pp. 61–70.

[42] D. Parra, W. Jeng, P. Brusilovsky, C. Lopez, and **S. Sahebi**, "Conference navigator 3: An online social conference support system," in *UMAP Workshops*.

[43] **S. Sahebi** and W. W. Cohen, "Community-based recommendations: a solution to the cold start problem," in *Workshop on Recommender Systems and the Social Web (RSWEB)*.

[44] **S. Sahebi**, C. Wongchokprasitti, and P. Brusilovsky, "Recommending research colloquia: a study of several sources for user profiling," , in *Proceedings of the 1st International Workshop on Information Heterogeneity and Fusion in Recommender Systems*, pp. 32–38.

[45] M. Mirzaei* and **S. Sahebi**, "Modeling students' behavior using sequential patterns to predict their performance," , in *International Conference on Artificial Intelligence in Education*, pp. 350–353.

Other Publications

[46] R. Feyzi-Behnagh, S. Bursali, J. R. Ferrari, and **S. Sahebi**, "Procrastination, indecision, and self-regulated learning: Relationship within online learning environments," in *The Annual Meeting of the Eastern Psychological Association (EPA)*.

[47] R. Feyzi-Behnagh, S. Bursali, **S. Sahebi**, M. Yao*, and S. Zhao*, "Operationalizing and measuring academic procrastination behavior using trace data," in *The Annual Meeting of the Eastern Psychological Association (EPA)*.

[48] R. Feyzi-Behnagh, S. Bursali, **S. Sahebi**, M. Yao*, and S. Zhao*, "Procrastination: Associations with emotion regulation, achievement emotions, and achievement goal-orientation," in *The 2022 American Educational Research Association Conference (AERA 2022)*.

[49] R. Feyzi-Behnagh, S. Bursali, **S. Sahebi**, M. Yao*, and S. Zhao*, "Operationalizing and measuring academic procrastination behavior using trace data," in *The 2022 American Educational Research Association Conference (AERA 2022)*.

Book Chapters

[50] D. Parra and **S. Sahebi**, "Recommender systems: Sources of knowledge and evaluation metrics," in *Advanced Techniques in Web Intelligence-2: Web User Browsing Behaviour and Preference Analysis*, J. V. et al. (Eds.), Ed. Berlin Heidelberg: Springer-Verlag, 2013, ch. 7, pp. 149–175.

Theses

[51] **S. Sahebi**, "Canonical correlation analysis in cross-domain recommender systems," Ph.D. dissertation, Intelligent Systems Program, University of Pittsburgh, 2016.

[52] **S. Sahebi**, "Cross-domain recommendation: The feasibility and the value for the cold start users," Master's thesis, Intelligent Systems Program, University of Pittsburgh, 2013.

[53] **S. Sahebi**, "Applying web content to web recommendation systems," Master's thesis, Electrical and Computer Engineering Department, University of Tehran, 2009.

[54] **S. Sahebi**, "A system for evaluating view updating in rdbmss," Bachelor's thesis, Computer Engineering Department, Sharif University of Technology, 2005.

Invited Talks and Panels

· Keynote Speaker, "Recommender Systems Beyond Commerce: Personalized Learning", Women in RecSys Keynote Series, The Eighteenth ACM Conference on Recommender Systems (RecSys 2024), Sep. 25, 2024

· Keynote Speaker, "Machine Learning for Human Learning: Complex Data Challenges", The Twenty-Eighth Annual Consortium for Computing Sciences in Colleges Northeastern Conference (CCSCNE 2024), April 13, 2024

· Invited Speaker and Panelist, "CISE CAREER Workshop", National Science Foundation, April 17, 2023

· Invited Speaker, "Machine Learning for Human Learning: The Case of Academic Procrastination", University of Pittsburgh, November 5, 2021

· Invited Speaker, Artificial Intelligence in Cyberspace, University at Albany-SUNY, September 30, 2020

· Invited Speaker, Artificial Intelligence Lightning Talks, University at Albany-SUNY, April 7, 2020

- Panelist, Celebrating Processing Day, Emma Willard School, Jan 9, 2019
- Invited Speaker, "Making Sense of Complex Data in Online Educational Systems," Institute for the Science of Teaching & Learning, Arizona State University, March 22, 2018

Teaching Experience

- ***Undergraduate Courses***,
  - *Data Mining*, University at Albany – SUNY. Spring 2021, 2022, 2023, & 2024, Fall 2021
  - *Introduction to Databases*, University at Albany – SUNY. Fall 2019, 2022, 2023, & 2024
  - *Computational Methods and Linear Algebra*, University at Albany – SUNY. Fall 2017
  - *Introduction to Artificial Intelligence*, University at Albany – SUNY. Fall 2016
- ***Graduate Courses***,
  - *Data Mining*, University at Albany – SUNY. Fall 2018, 2020 & 2023, Spring 2020
  - *Introduction to Artificial Intelligence*, University at Albany – SUNY. Spring 2018 & 2019
  - *Computational Methods and Linear Algebra*, University at Albany – SUNY. Fall 2017
  - *Machine Learning for User Adaptive Systems Seminar*, University at Albany – SUNY. Spring 2017
- ***Guest Lecture***,
  - *Numerical Methods*, on Mathematical Induction, University at Albany – SUNY. Spring 2020
  - *Internet of Things*, on recommender systems, University at Albany – SUNY. Fall 2017
  - *Adaptive Information Systems*, on advanced recommender systems, University of Pittsburgh. 2013, 2014, and 2015

Department Service

- Faculty Advisor, Upsilon Pi Epsilon Chapter, International Honor Society for the Computing and Information Disciplines (2024-present);
- Committee Member, MS Admission (2017-2018; 2019-present);
- Committee Member, PhD Admission (2017-2018; 2019-present);
- Subcommittee Member, CS Undergraduate Readmission (2020-present);
- Committee Member, CS Undergraduate Curriculum (2018-present);
- Committee Member, CS ABET Accreditation (2018-2023);

College Service

- College Representative, ACM New York Celebration of Women in Computing. NYCWIC (April 2025);
- Committee Member, Sullivan Award Endowment Committee (2025-present);
- Committee Member, College Tenure and Promotion Committee (2023-present);
- Committee Member, CNSE and CEAS Merge Name Committee (2023);
- Committee Member, AI Cluster Faculty Search (2022-2023);
- Committee Member, CS Chair Search (2017-2018).
- Committee Chair, Bunshaft Lecture (2017-2018)

University Service

- Faculty Co-Advisor, Women in Computing Student Chapter (2024-present);

- Faculty Advisor, UAlbany Information Technology Services for Teaching and Learning (2021-present);
- Faculty Participant, Middle States Commission on Higher Education University Visit (2020);
- Committee Member, FRAP-A Award Review (2018-2019);

Scholarly Service

- **Grant Proposal Panelist**
  - Computer and Information Science and Engineering (CISE), National Science Foundation (NSF) (2021);
  - Computer and Information Science and Engineering (CISE), National Science Foundation (NSF) (2019);
  - Directorate for Education and Human Resources (EHR), National Science Foundation (NSF) (2017)
- **Chair and Organizer**
  - **Personalizing Learning Experiences through User Modeling Track Co-Chair** - 32nd ACM Conference On User Modeling, Adaptation And Personalization (UMAP) (2024);
  - **Student Volunteer Chair** - 17th International Conference on Educational Data Mining (EDM) (2024);
  - **Organizer and Co-Chair** - AI4EDU: 4th International Workshop on AI for Education at AAAI (2023);
  - **Workshop Co-Chair** - 16th International Conference on Educational Data Mining (EDM) (2023);
  - **Late Breaking Results Co-Chair** - 31st ACM Conference On User Modeling, Adaptation And Personalization (UMAP) (2023);
  - **Organizer and Co-Chair** - 2nd Workshop on Multi-Objective Recommender Systems (MORS) at ACM RecSys (2022);
  - **Program Co-Chair** - 14th International Conference on Educational Data Mining (EDM) (2021);
  - **Organizer and Co-Chair** - 1st Workshop on Multi-Objective Recommender Systems (MORS) at ACM RecSys (2021);
  - **Organizer and Co-Chair** - Special session on fairness, equity, and bias in EDM research at the 14th International Conference on Educational Data Mining (EDM) (2021);
  - **Proceedings Co-Chair** - 14th ACM Conference on Recommender Systems (ACM RecSys) (2020);
  - **Publicity Co-Chair** - 13th ACM Conference on Recommender Systems (2019);
  - **Student Volunteer Co-Chair** - 12th ACM Conference on Recommender Systems (2018);
  - **Organizer and Co-Chair** - 2nd Workshop on Intelligent Recommender Systems by Knowledge Transfer and Learning (RecSysKTL) at ACM RecSys (2018);
  - **Organizer and Co-Chair** - 1st Workshop on Intelligent Recommender Systems by Knowledge Transfer and Learning (RecSysKTL) at ACM RecSys (2017)
- **Senior Program Committee Member**
  - ACM Recommender Systems Conference (RecSys) (2025);
  - International Conference on Educational Data Mining (EDM) (2022, 2023, 2024, 2025);
- **Program Committee Member**
  - ACM Conference On User Modeling, Adaptation And Personalization (UMAP) (2025);
  - The Web Conference (WWW) (2017, 2018, 2019, 2020, 2021, 2022, 2023);
  - The 16th ACM International Conference on Web Search and Data Mining (WSDM) (2023);
  - International Conference on Educational Data Mining (EDM) (2017, 2018, 2019, 2020, 2021);
  - International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR) (2022, 2023);
  - ACM Recommender Systems Conference (RecSys) (2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024);
  - The AAAI Conference on Artificial Intelligence (AAAI) (2021, 2024);
  - International Conference on Artificial Intelligence in Education (AIED) (2022);
  - Workshop on Explainable User Models and Personalised Systems (ExUM) (2022);

- ACM HyperText and Social Media Conference – Doctoral Consortium Mentor (2021);
- Educational Data Mining in Computer Science Education (CSEDM) Workshop (2018,2020);
- Workshop on Recommendation in Complex Environments (2020);
- The 33rd ACM/SIGAPP Symposium On Applied Computing (SAC) (2018, 2019, 2020);
- 18th IEEE International Conference on Advanced Learning Technologies (ICALT); (2017, 2018);
- The 8th International Conference Learning Analytics and Knowledge (2017, 2018);
- 1st Workshop on Holistic User Modeling (2017);
- 8th International Workshop on Modelling Social Media (MSM) (2016, 2017);
- iConference (2017);
- 1st Workshop on Big, Linked and Social Data for Personalized and Intelligent Systems (2016);
- International Workshop on Social Personalization (2014, 2015);
- 2nd Workshop on New Trends in Content-Based Recommender Systems (2015);
- DeCAT: Deep Content Analytics Techniques for Personalized and Intelligent Services Workshop (2015);
- Graph-based Educational Datamining Workshop (2014)

- **Journal Reviewer**
  - IEEE Transactions on Knowledge and Data Engineering (TKDE)
  - ACM Transactions on Information Systems (TOIS)
  - User Modeling and User-Adapted Interaction (UMUAI)
  - ACM Computing Surveys
  - IEEE Transactions on Learning Technologies (TLT)
  - IEEE Transactions on Big Data
  - IEEE Journal of Selected Topics in Signal Processing
  - Informatics - Special Issue on Advances in Recommender Systems
  - Journal of Learning Analytics
- **Session Chair and Doctoral Symposium Mentor**
  - CIKM 2024;
  - Doctoral Symposium Mentor - RecSys 2024;
  - Personalized Learning Session Chair - UMAP 2024;
  - User Modeling Session Chair - CIKM 2023;
  - DMKM: Recommender Systems Session Chair - AAAI 2023;
  - recommender Systems Session Chair - UMAP 2021
  - Predictive Models Session Chair - EDM 2020
- **Memberships**
  - ACM, ACM-W

Outreach

- ***Event Organizer and Teacher***, *Learning How to Upskill Online*, Albany Public Library, Delaware Branch. 08/2023
  - An introduction to free online and lifelong learning resources and best self-regularization and online learning strategies for adults.
- ***Event Organizer and Teacher***, *Intro to AI for Tweens*, Albany Public Library, North Albany Branch. 07/2023
  - A hands-on project-based introduction to AI and machine learning for 11 to 18-year-olds, using free programming tools like Scratch.
- ***Invited Talk***, *Women in Technology*, on Artificial Intelligence and Recommender Systems, University at

Albany – SUNY. Fall 2021

- ***High School Intern Host***, University at Albany – SUNY. Summer 2019
  - Hosting two female high school students in collaboration with Girls Inc. to introduce them to machine learning and applications and encourage them to pursue computing careers.
- ***Teaching Volunteer***, *TechDivaz Workshop*, University of Pittsburgh. 2012
  - An all-girls computer science and programming workshop for students in grades 7 to 9

Post-Doctorate Fellow, Visitors, and Students Supervised

- **Post-Doctorate Fellows and Visitors**
  - Laura O. Moraes, Visitor from Universidade Federal do Rio de Janeiro (UFRJ), 2020
  - Thanh Nam Doan, Post-Doc, 2018-2019
- **Ph.D. Graduates**
  - Siqian Zhao, Ph.D., Aug. 2024, Multi-Activity Student Knowledge and Behavior Modeling via Transfer Learning
  - Chunpai Wang, Ph.D., Jan. 2023, Sequential User Modeling and Recommendation Under Partially Observable Environment
  - Mengfan Yao, Ph.D., Jun. 2022, High-capacity and interpretable temporal point process models for user activity sequence modeling
  - Mehrdad Mirzaei, Ph.D., Sep. 2020, Discriminative Factorization Models for Student Behavioral Pattern Detection and Classification
- **Ph.D. Students**
  - Ting Gao, Ph.D. Student
- **Master Research Students**
  - Marc McAdoo, M.Sc., 2024, Reinforcement Learning for Education
  -
  - Vikas Musku, M.Sc., 2020, Student Knowledge Tracing
  - Will Dahl, M.Sc., 2020, Educational Recommendations
  - Brian Juan, M.Sc., 2020, Cross-Domain Recommender Systems
  - Sai Manish Cirigiri, M.Sc., 2020, Recommendation Explanation
  - Sreekar Dhaduvai, M.Sc., 2020, Privacy in Recommender Systems
  - Keith Zeto, M.Sc., 2019. Deep Sequential Cross-Domain Recommendation
  - Ishita Patil, M.Sc., 2019. StudyBuddy: a Procrastination Tracker Android Application
  - Leah Rice, M.Sc., 2019. Image to Text Labeling for Advertisements
  - Russel Ng, M.Sc., 2019. Explainable Recommenders
  - Subhitsha Suresh, M.Sc., 2019. A Web Interface for Learning Time Management
  - Ruchi Gauli, M.Sc., 2019. Data Processing Tool for Multi-View Datasets
  - Kai Xie, M.Sc., 2019. Implementation of a Community-Based Recommendation System
  - Jay Tanna, M.Sc., 2019. Domain Hierarchy Exploration for Cross-Domain Recommenders
  - Jayesh Yeola, M.Sc., 2018. Cross-Domain Recommendation Using Matrix Completion
  - Michael Phipps, M.Sc., 2018. A Method for Transmitting and Receiving Non-Isomorphic Data
  - Sean Lachhander, M.Sc., 2017. Context Aware Music Recommender Systems
  - Ravi Ekambaram, M.Sc., 2017. Cleaning and Analyzing Canvas Network MOOC Dataset
- **Undergraduate Research Students**
  - Marc McAdoo, REU, Summer and Fall 2023

- Yunrui Huang, REU, Summer 2023
- Jie-Jie Bennett, Honors thesis: Analyzing Academic Self-Regulation Improvement via Proccoli Task and Time Management Application, 2022
- Evan Philipps, 2021
- Mohammed Hashem, 2020

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