Alvitta Ottley

Washington University in St. Louis Computer Science and Engineering Campus Box 1045, Jolley Hall 410 St. Louis, MO 63130 **a** +1 (314) 935-2738

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http://visualdata.wustl.edu/

Education

Tufts University

2016

2013

2010

Ph.D. in Computer Science MSc in Computer Science

Ph.D. Thesis: Toward Personalized Visualizations

Advisor: Remco Chang

State University of New York at Plattsburgh

BSc in Computer Science, summa cum laude

Professional Appointments

Washington University in St. Louis, St. Louis, MO, USA

2016- Assistant Professor

Department of Computer Science and Engineering

2016 - Assistant Professor

Department of Psychological and Brain Sciences, courtesy

IBM Research, Almaden, CA, USA

Summer 2014 Research Intern

User Systems and Experience Research (USER) Group

IBM Research, Cambridge, MA, USA

Summer 2013 Research Intern

1/2022-12/2022

Center for Innovation in Visual Analytics (CIVA) Group

Funding

Department of Defense: Laboratory for Analytic Sciences (LAS) at North Carolina State University, *Investigating How Individual Differences Influence Algorithm Confidence Interpretations*,

\$237,154. PIS: Alvitta Ottley, R. Jordan Crouser

9/2022-8/2027 National Science Foundation, CAREER: Context-Aware Visual Analytics Systems: Evolving the

One-Size-Fits-All Approach to Design and Evaluation, \$528,224. PI: Alvitta Ottley

Department of Defense: Laboratory for Analytic Sciences (LAS) at North Carolina State University, *Personalizing the Delivery of Analytic Products for Individual Decision-Makers*, \$225,985.

PIS: Alvitta Ottley, R. Jordan Crouser

8/2021-8/2026	National Science Foundation, <i>HDR Institute: Institute for Data Driven Dynamical Design</i> , \$15,540,749. PI: Eric Toberer, CO-PIS: Alvitta Ottley, Steven Lopez, Adji Bousso, Ryan Adams
/2021-12/2021	Department of Defense: Laboratory for Analytic Sciences (LAS) at North Carolina State University, Investigating the Role of Individual Differences in Moderating Goal-Driven vs. Open-Ended Analysis, \$211,911. PIS: Alvitta Ottley, R. Jordan Crouser
/2020-12/2020	Department of Defense: Laboratory for Analytic Sciences (LAS) at North Carolina State University, <i>Investigating the Role of Individual Differences in Visual Analytic Work Flows</i> , \$161,901. PIS: Alvitta Ottley, R. Jordan Crouser
/2019-12/2019	BOEING, Integrated Computational and Cognitive Workflows for Improved Security and Usability, \$501,725. PI: Alvitta Ottley, CO-PI: William Yeoh
/2019-12/2019	Department of Defense: Laboratory for Analytic Sciences (LAS) at North Carolina State University, <i>Investigating the Role of Individual Differences in Visual Analytic Work Flows</i> , \$109,914. PIS: Alvitta Ottley, R. Jordan Crouser
6/2018-5/2023	National Science Foundation, CRII: SCH: Visualization for Better Medical Decision–Making, \$174,254. PI: Alvitta Ottley
	Awards & Distinctions
2023	General Chair: Symposium on Visualization in Data Science (vds 2023)
2022	EUROVIS 2022 Young Researcher Award
2022	Best Short Paper Award for EUROVIS 2022
2022	Invitation to Schloss Dagstuhl Seminar on 'Anticipatory Human-Machine Interaction'
2022	NSF Faculty Early Career Development Program (CAREER) Award
2020	Honorable Mention Best Paper Award for EUROVIS 2020
2019	Best Paper Award Finalist for EUROVIS 2019 (Top 5 papers)
2017	NSF Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII) Award
2017	Invitation to Schloss Dagstuhl Workshop on Restructuring IEEE VIS for the Future
2016	Selected to attend the Heidelberg Laureate Forum – a networking event for "promising young researchers in mathematics and computer science" with recipients of the Abel Prize, the ACM A.M. Turing Award, the ACM Prize in Computing, the Fields Medal, and the Nevanlinna Prize.
2015	Honorable Mention Best Paper Award for CHI 2015
2014	Kirk and Janelle Loevner Graduate Fellowship Award, Tufts University
2011	Phi Kappa Phi Love of Learning Award Nominee, SUNY Plattsburgh
2010	Outstanding Computer Science Graduate Award, SUNY Plattsburgh Grace Hopper Celebration of Women in Computing Scholarship Award Distributed Research Experience for Undergraduates (DREU) Inducted into The Honor Society of Phi Kappa Phi, SUNY Plattsburgh Hudson Scholarship for Academic Excellence in Computer Science, SUNY Plattsburgh

Publications

My Google Scholar profile is available here.

JOURNAL AND PEER-REVIEWED CONFERENCE PAPERS

- S. PANDEY, AND A. OTTLEY. Mini-VLAT: A Short and Effective Measure of Visualization Literacy. *Computer Graphics Forum (CGF)*. (EUROVIS 2023).
- S Monadjemi, M. Guo, D. Gotz, R. Garett, and A. Ottley. Human-Computer Collaboration for Visual Analytics: an Agent-based Framework. *Computer Graphics Forum (CGF)*. (EUROVIS 2023).
- M. Bancilhon, A. Wright, S. Ha, R. J. Crouser, and A. Ottley. Why Combining Text and Visualization Could Improve Bayesian Reasoning: A Cognitive Load Perspective. *Conference on Human Factors in Computing Systems* (CHI 2023).
- S Monadjemi, S. Ha, Q. Nguyen, H. Chai, R. Garett, and A. Ottley. Guided Data Discovery in Interactive Visualizations via Active Search. *IEEE VIS: Visualization & Visual Analytics* (VIS 2022).
- S. HA, S MONADJEMI, R. GARETT, AND A. OTTLEY. A Unified Comparison of User Modeling Techniques for Information Relevance and Exploration Bias. *IEEE VIS: Visualization & Visual Analytics* (VIS 2022).
- S. GATHANI, S. MONADJEMI, A. OTTLEY, AND L. BATTLE. A Grammar-Based Approach for Applying Visualization Taxonomies to Interaction Logs. *Computer Graphics Forum (CGF). Appeared in proceedings of EUROVIS* 2022, 41(3): 489–500.
- A. Suh, A. Mosca, S. Robinson, Q, Pham, D. Cashman, A. Ottley, R. Chang. Inferential Tasks as an Evaluation Technique for Visualization. 24th EG Conference on Visualization **BEST PAPER AWARD ** (EUROVIS 2022).
- A. KUMAR, S. L. VASILEIOU, M. BANCILHON, A. OTTLEY, AND W. YEOH. VIZXP: A Visualization Framework for Conveying Explanations to Users in Model Reconciliation Problems. 32nd International Conference on Automated Planning and Scheduling (ICAPS 2022).
- A. Mosca, A. Ottley, and R. Chang. Does Interaction Improve Bayesian Reasoning with Visualization?. *Conference on Human Factors in Computing Systems* (CHI 2021).
- K. Xu, A. Ottley, C. Walchshofer, M. Streit, R. Chang, and J. Wenskovitch. Survey on the Analysis of User Interactions and Visualization Provenance. *Computer Graphics Forum* (CGF). Appeared in proceedings of Eurovis 2020, 39(3): 757–783.
- Z. LIU, R. J. CROUSER, A. OTTLEY. Survey on Individual Differences in Visualization. *Computer Graphics Forum (CGF)*. Appeared in proceedings of EUROVIS 2020, 39(3): 693–712.
- M. BANCILHON, Z LIU, AND A. OTTLEY. Let's Gamble: How a Poor Visualization Can Elicit Risky Behavior. *IEEE VIS: Visualization & Visual Analytics* (VIS 2020).
- R. J. Crouser, A. Ottley, K. Swanson, and A. Montoly. Investigating the Role of Locus of Control in Moderating Complex Analytic Workflows. 22nd EG/VGTC Conference on Visualization * HONORABLE MENTION BEST PAPER AWARD * (EUROVIS 2020).

- A. Ottley, R. Garnett, and R. Wan. Follow The Clicks: Learning and Anticipating Mouse Interactions During Exploratory Data Analysis. Computer Graphics Forum (CGF)

 * BEST PAPER AWARD FINALIST (TOP 5) * Appeared in EUROVIS 2019, 38(3): 41–52.
- Q. Zhi, A. Ottley, and R. Metoyer. Linking and Layout: Exploring the Integration of Text and Visualization in Storytelling. *Computer Graphics Forum (CGF). Appeared in proceedings of Eurovis 2019*, 38(3): 675–685.
- A. Ottley, A. Kaszowska, E. Peck, and R. J. Crouser. The Curious Case of Combining Text and Visualization. 21st EG/VGTC Conference on Visualization (Eurovis 2019).
- A. HAKONE, L. HARRISON, A. OTTLEY, N. WINTERS, C. GUTHEIL, P. KJ HAN, AND R. CHANG. PROACT: Iterative Design of a Patient-Centered Visualization for Effective Prostate Cancer Health Risk Communication. *IEEE Transactions on Visualization & Computer Graphics (TVCG)*.

 Appeared in INFOVIS 2016, 23(1): 601 610.
- A. Ottley, E. M. Peck, L. T. Harrison, D. Afergan, C. Ziemkiewicz, H. A. Taylor, P. KJ Han, and R. Chang. Improving Bayesian Reasoning: The Effects of Phrasing, Visualization, and Spatial Ability. *IEEE Transactions on Visualization & Computer Graphics (TVCG)*.

 Appeared in Infovis 2015, 22(1): 529 538.
- A. Ottley, H. Yang, and R. Chang. Personality as a Predictor of User Strategy: How Locus of Control Affects Search Strategies on Tree Visualizations. *Conference on Human Factors in Computing Systems*, * HONORABLE MENTION BEST PAPER AWARD * (CHI 2015).
- A. Ottley, R. J. Crouser, C. Ziemkiewicz, and R. Chang.. Manipulating and Controlling for Personality Effects on Visualization Tasks. *Information Visualization (IVI)*, 14(3): 223 233.
- E. Brown, A. Ottley, J. Zhao, Q. Lin, R. Souvenir, A. Endert, and R. Chang. Finding Waldo: Learning About Users From Their Interactions. *IEEE Transactions on Visualization & Computer Graphics (TVCG)*. Appeared in VAST 2014, 20(12): 1663 1672.
- E.M. PECK, B.F. YUKSEL, A. OTTLEY, R.J.K. JACOB, AND R. CHANG. Using fNIRS brain sensing to evaluate information visualization interfaces. *Conference on Human Factors in Computing Systems* (CHI 2013).
- J. E. GILBERT, J. DUNBAR, A. OTTLEY, AND J. M. SMOTHERMAN. Anomaly Detection in Electronic Voting Systems. *Information Design Journal (IDJ)*, 20(3): 194–206.
- C. ZIEMKIEWICZ, A. OTTLEY, R. J. CROUSER, A. YAUILLA, S. L. SU, W. RIBARSKY, AND R. CHANG. How Visualization Layout Relates to Locus of Control and Other Personality Factors.. *IEEE Transactions on Visualization & Computer Graphics (TVCG)*, 19(7): 1109–1121.
- C. ZIEMKIEWICZ, A. OTTLEY, R. J. CROUSER, K. CHAUNCEY, S. L. SU, AND R. CHANG. Understanding Visualization by Understanding Individual Users. *IEEE Computer Graphics and Applications (ССФА)*, 32(6): 88–94.
 - WORKSHOP PAPERS (PEER REVIEWED)
- R. Kasumba, S. Pandey, V. Patel, M. Wolfson, and A. Ottley. User Engagement with COVID-19 Visualizations on Twitter. *IEEE VIS 2022 Workshop on Visualization for Communi-*

- cation (VISCOMM) (VIS 2022).
- A KUMAR, SL VASILEIOU, M BANCILHON, A. OTTLEY, AND W YEOH. VizXP: A Visualization Framework for Conveying Explanations to Users in Model Reconciliation Problems. *ICAPS* 2021 Workshop on Explainable AI Planning (ICAPS 2021).
- C PLANT, A. OTTLEY, L GOU, T MÖLLER, A PERER, A LEX, AND J SHAO. VDS'21: Visualization in Data Science. Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery & Data Mining (KDD 2021).
- M. BANCILHON AND A. OTTLEY. Did You Get The Gist Of It? Understanding How Visualization Impacts Decision-Making. IEEE VIS 2020 Workshop on Visualization Psychology, (VIS 2020).
- S. HA, A. KERN, M. BANCILHON, AND A. OTTLEY. Expectation Versus Reality: The Failed Evaluation of a Mixed-Initiative Visualization System. IEEE VIS 2020 Workshop Celebrating the Scientific Value of Failure (FailFest), (VIS 2020).
- A. Mosca, A. Ottley, and R. Chang. Does Interaction Improve Bayesian Reasoning with Visualization?. IEEE VIS 2020 Workshop on Visualization for Communication (VisComm), (VIS 2020).
- D. CASHMAN, Y. WU, A. OTTLEY, AND R. CHANG. Inferential Tasks as a Data-Rich Evaluation Method for Visualization. IEEE VIS 2019 Workshop on EVIVA-ML, (VIS 2019).
- A. Ottley, E.M. Peck, L. Harrison, and R. Chang. The Adaptive User: Priming to Improve Interaction. Many People, Many Eyes: Aggregating Influences of Visual Perception on User Interface Design, Conference on Human Factors in Computing Systems (CHI 2013).
- E.M. PECK, B.F. YUKSEL, L. HARRISON, A. OTTLEY, AND R. CHANG. Position Paper: Towards a 3-Dimensional Model of Individual Cognitive Differences. Beyond Time and Errors: Novel Evaluation Methods for Information Visualization, *IEEE VIS* (VIS 2012).

CONFERENCE POSTERS, DEMOS, ARTICLES

- L. Battle A. Ottley. Testing Theories of Task in Visual Analytics. *ACM Interactions*, 29(3): 22–23.
- A Kumar, S Shah, M Lowalekar, P Varakantham, A. Ottley, and W Yeoh. FairVizARD: A Visualization System for Assessing Fairness of Ride-Sharing Matching Algorithms. *Proceedings of the International Conference on Automated Planning and Scheduling* (ICAPS 2021).
- C. WAYLLACE, S. HA, Y. HAN, J. HU, S. MONADJEMI, W. YEOH, AND A. OTTLEY. DRAGON-V: Detection and Recognition of Airplane Goals with Navigational Visualization.. *In Proceedings of the Conference on Artificial Intelligence (AAAI 2020)*, 34(9): 13642–13643.
- S. Monadjemi, R. Garnett, and A. Ottley. User Interaction Modeling through Time and Data Space. *IEEE Conference on Visual Analytics Science and Technology* (vast 2019).
- Z. LIU, M. BANCILHON, AND A. OTTLEY. Icons are Best: Ranking Visualizations for Proportion Estimation. *IEEE Conference on Information Visualization* (INFOVIS 2019).

- H. Zhao, Q. Lin, A. Ottley, and R. Chang. Modeling User Interactions for Complex Visual Search Tasks. *IEEE Conference on Visual Analytics Science and Technology* (vast 2013).
- A. Ottley, R.J. Crouser, C. Ziemkiewicz, and R. Chang. Priming Locus of Control to Affect Performance. *IEEE Conference on Visual Analytics Science and Technology* (vast 2012).

BOOK

A. Ottley. Adaptive and Personalized Visualization. Synthesis Lectures on Visualization, 7.1,1-117, Morgan & Claypool

BOOK CHAPTER

R. J. CROUSER, A. OTTLEY, AND R. CHANG. Balancing Human and Machine Contributions in Human Computation Systems. Handbook of Human Computation, 615–623, *Springer*

TECHNICAL REPORTS AND PREPRINTS

- A. Kern and A. Ottley. The Effects of Mixed-Initiative Visualization Systems on Exploratory Data Analysis. Washington University, St. Louis, Mo, USA. WUCSE-2020-001
- A. Ottley, B. Metevier, P.K.J. Han, and R. Chang. Visually Communicating Bayesian Statistics to Laypersons. Tufts University, Medford, MA, USA. TR-2012-02

THESIS

A OTTLEY. Toward Personalized Visualizations. Ph.D. thesis, Tufts University.

Invited Talks

- Uniting Human and Machine Intelligence to Support Data Discovery and Decision-Making, University of Washington, Paul G. Allen School of Computer Science & Engineering, (virtual).
- Keynote: Uniting Human and Machine Intelligence to Support Data Discovery and Decision-Making, AWARE-AI NSF Research Traineeship Program, Rochester Institute of Technology, Rochester NY, USA.
- Uniting Human and Machine Intelligence to Support Data Discovery and Decision-Making, University of Missouri, Columbia MO, USA.
- Context-Aware Visual Analytics Systems: Evolving the One-Size-Fits-All Approach to Design and Evaluation, Saint Louis University, St. Louis, мо, usa.
- Context-Aware Visual Analytics Systems: Evolving the One-Size-Fits-All Approach to Design and Evaluation, M-MARC Seminar, Old Dominion University, Norfolk, VA, USA.
- Uniting Human and Machine Intelligence to Support Data Discovery and Decision-Making., CHIWORK Conversations, (virtual).
- Learning from Interaction Traces: Representations, Models, and Predictions., Datapolooza, University of Virginia, (virtual).
- The Case for Precision Visualization, Marvin Zelen Symposium, Dana-Farber Cancer Institute, Boston, MA, USA.

- Keynote: Using Models and Predictions to Help Humans and Computers Click, IEEE VIS 2020 Workshop on Machine Learning from User Interaction for Visualization and Analytics (MLUI 2020), (virtual).
- The Role of Individual Differences in Moderating Decision-Making with Visualization, Concepts and Data: An Interdisciplinary Workshop. *A Sawyer Seminar on "Precision and Uncertainty in a World of Data" and Viral Conjunctions Co-Hosted Event*, John Hopkins University (virtual).
- Modeling & Predicting User Attributes During Visual Data Exploration, University of Colorado Boulder, (virtual).
- Empowering Patients through Visualization, Saint Louis Veterans Affairs Medical Center (VAMC), St. Louis, мо, usa.
- Empowering Patients through Visualization, VA Saint Louis Health Care System (**vastlhcs**), St. Louis, мо, usa.
- Empowering Your Audience through Visualization: Graphic, Numerical, Historical, #SciComm Thursdays, St. Louis, мо, usa.
- Improving Bayesian Reasoning, Visual Analytics Minisymposium (SIAM), Boston, MA, USA.
- Improving Bayesian Reasoning, IEEE Conference on Information Visualization (INFOVIS), Chicago, IL, USA.
- Personality as a Predictor of User Stategy, ACM Conference on Human Factors in Computing Systems (CHI), Seoul, SOUTH KOREA.
- Personality as a Predictor of User Stategy, Tufts Annual Graduate Student Research Symposium, Medford, MA, USA.
- Improving Health Risk Communication, Tufts Ignite, Medford, ма, usa.
- Unboxing the User, IBM Research Decision Making Workshop, Cambridge, MA, USA.
- Personality as a Predictor of User Strategies, IBM Research USER Group Talk Series, Almaden, CA, USA.
- Modeling User Interactions for Complex Visual Search Tasks, Poster Presentation at IEEE Conference on Information Visualization (INFOVIS), Atlanta, GA, USA.
- Risk Visualization, IBM Research Internfest 2013, Cambridge, MA, USA.
- Personalized Visualizations, Tufts University Colloquia Series, Medford, MA, USA.
- Priming Locus of Control to Affect Performance, Poster Presentation at IEEE VisWeek (VIS), Seattle, wa, USA.
- Cognition and Evaluation (New Metrics / Measures): How can we measure cognition?, IEEE VisWeek BELIV Workshop (VIS), Seattle, WA, USA.
- Priming Locus of Control to Affect Performance, Poster Presentation at CRA-W Graduate Cohort, Bellevue, wa, usa.

Professional Service

ORGANIZATION

- General Chair. Symposium on Visualization in Data Science (VDS).
- Publicity Chair. *IEEE VIS: Visualization & Visual Analytics* (VIS).
- Paper Chair. Symposium on Visualization in Data Science (VDS).
- 2020-2021 Diversity and Inclusion Chair. IEEE VIS: Visualization & Visual Analytics (VIS).

Doctoral Consortium Chair. ACM Richard Tapia Celebration of Diversity in Computing (TAPIA). 2018-2010 WORKSHOPS CO-ORGANIZED Visualization in Data Science (VDS). Special Interest Group on Knowledge Discovery and Data 2021 -Mining 2021, 2022 (SIGKDD). Symposium on Visualization in Data Science (VDS). IEEE VIS: Visualization & Visual Analytics 2020 -2020 - 2022 (VIS). Visualization for Communication (VISCOMM). IEEE VIS: Visualization & Visual Analytics 2020, 2020 -2021 (VIS). JOURNAL REVIEWING (2013-) IEEE Transactions on Visualization and Computer Graphics (TVCG) Frontiers in Psychology ACM Transactions on Interactive Intelligent Systems(TIIS) IEEE Computer Graphics and Applications (CG&A) *Information & Management (INFMAN)* Information Visualization IVI Algorithms CONFERENCE REVIEWING (PROGRAM COMMITTEE MEMBER) EUROVIS: Visualization Conference organized by the Eurographics Working Group on Data Visu-2023 alization (EUROVIS) IEEE VIS: Visualization & Visual Analytics (VIS) 2020-2021 IEEE Information Visualization (INFOVIS) 2017-2020 ACM Conference on Human Factors in Computing Systems (CHI) 2019-2020, 2022 CONFERENCE REVIEWING (2013-) *IEEE Information Visualization Conference (INFOVIS)* IEEE Conference on Visual Analytics Science and Technology (VAST) ACM Conference on Human Factors in Computing Systems (CHI) ACM User Interface Software and Technology Symposium (UIST) EG/VGTC Conference on Visualization (EUROVIS) Graphics Interface (GI) **Teaching Activities** Washington University in St. Louis Instructor, Advanced Visualization (formerly Information Visualization) (CSE 557A) 27 students, 6.56/7 Spring 2022 9 students, (evals unavailable) Spring 2021 40 students, 6.64/7 Spring 2020 26 students, 5.39/7 Fall 2018 33 students, 6.6/7 Spring 2018

29 students, 5.67/7

Spring 2017

Fall 2016 16 students, 6.54/7 Instructor, Introduction to Visualization (CSE 457A) 44 students, 6.7/7 Fall 2022 52 students, 5.8/7 Fall 2021 Fall 2020 63 students, 4.5/7 41 students, 5.5/7 Spring 2019 Instructor, Research Seminar on Robotics and Human-Computer Interaction (CSE 7200) 2 students, (evals unavailable) Fall 2021 **Tufts University** Teaching Assistant, Introduction to Computer Science (COMP 11), 4 semesters Teaching Assistant, Introduction to Programming for Business (COMP 10), 1 semester Teaching Assistant, Discrete Mathematics (COMP 22), 1 semester Teaching Assistant, Unix System Administration (COMP 150), 1 semester **Student Advising** PHD STUDENTS Oen McKinley, Washington University in St. Louis, expected graduation: 2027. 2023-Saugat Pandey, Washington University in St. Louis, expected graduation: 2026. 2022-Melanie Banchilhon, Washington University in St. Louis, expected graduation: 2024. 2020-Sunwoo Jennifer Ha, Washington University in St. Louis, expected graduation: 2024. 2020-Shayan Monadjemi, Washington University in St. Louis, expected graduation: 2023. 2019-MASTER'S THESES SUPERVISED Emma Baker, Washington University in St. Louis. 2021-2022 Thesis: Information Overload: The Engagement and Virality of Data Visualization in **Online Communities** Adam Kern, Washington University in St. Louis. 2019-2020 Thesis: The Effects of Mixed-Initiative Visualization Systems on Exploratory Data Analysis Ran Wan, Washington University in St. Louis. 2017-2018 Thesis: Inferring Intent from Interaction with Visualizations MASTER'S PROJECTS SUPERVISED Jing Zhang, Washington University in St. Louis. 2020-21 Project: An Experiment Platform For Visual Analytic Tasks Saulet Yskak, Washington University in St. Louis. 2019-20 Project: Solving disappearance at GASTech with visual analytic techniques Xiwei Xuan, Washington University in St. Louis. 2019-20

Jin Han, Washington University in St. Louis.

2019-20

Project: A Machine Learning Approach to the Automatic Classification of Visualization

	Project: Lawviews: visualization of Chinese Legal Decisions
2019-19	Jesse Huang, Washington University in St. Louis.
	Project: A Survey on the Role of Individual Differences on Visual Analytics Interactions
2019-19	Amelia Santrach, Washington University in St. Louis.
2019 19	Project: Association Rules
2018-18	David Flasterstein, Washington University in St. Louis.
2016-16	·
	Project: Democracy Tycoon
	POST-BACCALAUREATE RESEARCH SUPERVISED
Fall 2021	Bruktawit Teklay Amare, Washington University in St. Louis
	UNDERGRADUATE RESEARCH SUPERVISED
2022-2023	Amee Rothman, Washington University in St. Louis
2022-2023	Danni Liu, Washington University in St. Louis
Fall 2022	Mia Collymore Abbas, Washington University in St. Louis
Fall 2022	Naomi Horsford, Washington University in St. Louis
Fall 2021	Marissa Kalkar, Washington University in St. Louis
Summer 2019	James Easton, Center College
Summer 2019	Jonathan Carrasco, Williams College
Summer 2019	Diego Marcano, Swarthmore College
2018-19	Ana Boyer, Washington University in St. Louis
Summer 2018	Luyu Cheng, Shandong University
Summer 2018	Jennifer Sunwoo Ha, New College of Florida
Summer 2018	Robert Costales, Bard College at Simon's Rock
Summer 2017	Surina Puri, Georgia Tech
Summer 2017	Ran Wan, Washington University in St. Louis
Summer 2017	Shayan Monadjemi, University of Texas at Dallas
Summer 2017	Jordan Perry, Lincoln University
Summer 2017	Jennifer Le, Arizona State University
Spring 2017	Ran Wan, Washington University in St. Louis
Spring 2017	Jake Kent, Washington University in St. Louis
Fall 2016	Jacob Pepe, Washington University in St. Louis
	HIGH SCHOOL RESEARCH SUPERVISED
Fall 2021	Kaelen Raible, Fort Zumwalt South High School, St. Peters, MO
	COMMITTEE MEMBER (PHD)
2023	Sayantan Bhadra, Washington University in St. Louis
2022	Khoi Hoang, Washington University in St. Louis
2022	Dan Zeng, Washington University in St. Louis
2021	Shenghua He, Washington University in St. Louis
2021	Ab Mosca, Tufts University
2021	Athena Tabakhi, Washington University in St. Louis
2021	Oindrila Chatterjee, Washington University in St. Louis
2021	Christabel Wayllace, Washington University in St. Louis

2020	Qiyu Zhi, University of Notre Dame
2018	Abby Stylianou, Washington University in St. Louis
2018	Michelle Ichinco, Washington University in St. Louis
2018	Yajie Yan, Washington University in St. Louis
2018	Kyle Harms, Washington University in St. Louis
	COMMITTEE MEMBER (MASTER'S THESES/PROJECTS)
2022	Vishesh Patel, Washington University in St. Louis
2018	Andrew Cukierwar, Washington University in St. Louis
2018	Peter Kim, Washington University in St. Louis
2017	Estee Rebibo, Washington University in St. Louis
	University Service
	COMPUTER SCIENCE & ENGINEERING
2020-2021	Member, Faculty Position on Race and Ethnicity Search Committee
2017-2019	Co-Chair, Colloquium Series
2017-2019	Member, McKelvey Hall Steering Committee
2017-2018	Member, Faculty Search Committee
	WASHINGTON UNIVERSITY
2020-	Member, Data Science for Social Impact Advisory Committee An initiative of the Social Policy Institute
2020	Member, Faculty Position on Race and Ethnicity Search Committee Sam Fox School of Design and Visual Arts
2019-	Member, Faculty Library Council Committee
2018-	Member, Institutional Review Board (IRB) Advisory Board
2017-2018	Member, Bring Your Own Idea (BYOI) Makers Committee: Exploring the Role of Creative Work in the Undergraduate Curriculum
2017	Judge, Global Health Case Competition
	STUDENT GROUPS
2020-	Faculty Mentor, <codeblack></codeblack>
2017-	Faculty Mentor, GIRLS WHO CODE
2017	Judge, archhacks

Professional Affiliations

ACM-SIGCHI

Select Press

McKelvey Engineering to host AI camp for local students Garnett, Ottley join \$15M Institute for Data-Driven Dynamical Design Imoukhuede, Ottley named among 'Inspiring Black Scientists in America'