NECDET GÜRKAN

ngurkan@stevens.edu

www.necdetgurkan.com

EDUCATION & EMPLOYMENT

Ph.D. (Expected 2024)	Information Systems Stevens Institute of Technology Advisor: Prof. Jordan W. Suchow Committee: Gert-Jan de Vreede, Jeffrey Nickerson, Aron Lindberg, Samantha Kleinberg, & Bei Yan Thesis: A Computational Foundation for Consensus-Aware Technologies	2019—
M.S.	Information Systems Le Moyne College Advisor: Prof. Martha R. Grabowski Thesis: Evaluating Convolutional Neural Networks Methods with Limited Computational Power to Capture Human Mental Representations.	2018-2019
Consulting	Research consulting for law firms Harvey Moore & Associates	2017-2018
Research Fellow	University of South Florida PI: Prof. Emanuel Donchin	2017-2018
B.A.	Psychology Saint Leo University	—2013-2017

RESEARCH & TEACHING INTEREST

Artificial intelligence, machine learning, decision-making, cognitive science, human-computer interaction, business analytics, and collective intelligence.

UNDER REVISION

Gürkan, N. & Suchow, J. W. "Harnessing Collective Intelligence Under a Lack of Consensus," **first-round revision at *Management Science,* FT-50.**

UNDER REVIEW & RESEARCH PIPELINE

Ashrafimoghari, V. & *Gürkan, N.* "Evaluating Large Language Models on the GMAT: Implications for the Future of Business Education." **under review ACM Transactions on Intelligent Systems and Technologies,** impact factor: 5.0.

Buchanan, E., Elsherif, M. M., Geller, J., Aberson, C. L., *Gürkan, N.* … "Accuracy in Parameter Estimation and Simulation Approaches for Sample Size Planning with Multiple Stimuli," **under review at *Behavior Research Method,*** impact factor: 7.7

Gürkan, N. & Suchow, J. W. "Explaining Away Differences in Identity Matching," **under review at *Cognitive Science Society Proceedings.***

Gürkan, N. & Rathod, V. "Unlocking the Face Code: How Facial Features Drive Social Biases," **under review at *Cognitive Science Society Proceeding****s. This paper was co-authored with my master's student, Vismay Rathod, with whom I collaborated throughout the research project.*

Gürkan, N. & Suchow, J. W. "Understanding Public Perception of AI Using the Infinite Cultural Consensus Theory" planned for submission to the *Journal of Management Information Systems.*

Gürkan, N. & Yan, B. "Early Chatbot Assistance Can Enhance Team Decision-Making by Promoting Cognitive Diversity and Information Elaboration" planned for submission to *MIS Quarterly.*

Suchow, J. W., *Gürkan, N.*, Lindberg, A. & Zheng, W. "Confronting Prejudice in the Metaverse: How Avatar Design Spaces Moderate Impression Formation" planned for submission to *MIS Quarterly.*

Gürkan, N. & Suchow, J. W. "The Temporal Dynamics of Enculturation Through the Learning and Adopting of Consensus Beliefs." planned for submission to *Information Systems Research.*

PEER-REVIEWED CONFERENCE ARTICLES

1. *Gürkan, N.* & Suchow, J. W. (2024). "Exploring Public Opinion on Responsible AI Through the Lens Cultural Consensus Theory," *Proceedings 57th Hawaii International Conference on System Sciences.*

2. *Gürkan, N.*, Almarzouq, M. & Murugaraj, P. R. (2023). "Personalized Content Moderation and Emergent Outcomes," *ICIS Proceedings.* **Paper-A-Thon Winner.**

3. *Gürkan, N.* & Yan, B. (2023) "Chatbot Catalysts: Improving Team Decision-Making Through Cognitive Diversity and Information Elaboration," *ICIS Proceedings.* **Best paper nomination.**

4. *Gürkan, N.* & Yan. B. (2023). "Early Chatbot Assistance Can Enhance Team Decision-Making by Promoting Cognitive Diversity and Information Elaboration," *Emergent Research Forum, AMCIS.*

5. *Gürkan, N.* & Suchow, J. W. (2023) "Predicting Judgments of Food Healthiness with Deep Latent-Construct Cultural Consensus Theory," in *Proceedings of the Annual Meeting of the Cognitive Science Society, 45 (45).*

6. Yan, B. & *Gürkan, N.* (2023). "It Depends on the Timing: The Ripple Effect of AI on Team Decision-Making," *Proceedings 56th Hawaii International Conference on System Sciences, HICSS 2023.* **Best paper nomination.**

7. *Gürkan, N.* & Suchow, J. W. (2022). "Cultural Alignment of Machine-Vision Representations," in *SVHRM Workshop at NeurIPS.*

8. *Gürkan, N.* & Suchow, J. W. (2022). "Learning and Enforcing a Cultural Consensus in Online Communities," in *Proceedings of the Annual Meeting of the Cognitive Science Society, 44 (44).*

CONFERENCE PRESENTATIONS

1. Fang, Y., Ortega, J., *Gürkan, N.*, Suchow, J. W., & Whitney, D. (2023). "Inferential tracking reveals context is more informative than faces in judgments of trustworthiness," *Journal of Vision*, 23(9), 5119-5119.

2. *Gürkan, N.* & Suchow, J. W. (2023) "Harnessing Collective Intelligence Under a Lack of Cultural Consensus," *INFORMS.*

3. *Gürkan, N.* & Suchow, J. W. (2022). "The Infinite Cultural Consensus Model," a talk at the *Mathematical Psychological Conference* 2022 in Toronto, Canada.

4. *Gürkan, N.* & Suchow, J. W. (2022). "Machines Lack the Causal Knowledge People Use to Visually Interpret Modified Bodies," presented at the annual *Vision Science Society.*

5. Suchow, J. W. & *Gürkan, N.* (2022). "Learning, Adopting, and Enforcing a Psychophysical Social Norm," presented at the annual *Vision Science Society.*

6   *Gürkan, N.* & Suchow, J. W. (2022). "A Virtual Assistant for Moderators: Enforcing Social Norms in Online Communities," *Northern Decision Science Institute.*

7   Suchow, J. W., *Gürkan, N.* & Peterson, J. C. (2021). "When Synthetic Portraits Do Not Preserve Privacy," *Mathematical Psychological Conference.*

8   *Gürkan, N.* & Suchow, J. W. (2021). "Explaining Away Differences in Face Matching," presented at *Mathematical Psychological Conference.*

9   *Gürkan, N.* & Suchow, J. W. (2021). "Causal Inference in Face Identification, Matching, and Verification," presented at *Vision Sciences Society.*

10 *Gürkan, N.* & Suchow, J. W. (2020). "The Adaptive Glasgow Face Matching Task," *42nd Annual Conference of the Cognitive Science Society* in Toronto, Canada.

11 *Gürkan, N.* & Suchow, J. W. (2020). "A Comparison of Regimes for Training Face-Matching," presented at *Vision Sciences Society.*

12 *Gürkan, N.* (2019). "Evaluating Convolutional Neural Networks Methods with Limited Computational Power to Capture Human Mental Representations," presented at *Le Moyne College* in Syracuse for Academic Excellence Day.

13 *Gürkan, N.* & Kieffer, K. M. (2017). "Perception of Parental Relationship in Homosexual, Heterosexual, and Bisexual Individuals," presented at the *Southeastern Psychological Association Conference* in Atlanta.

PRE-PRINT ARTICLES

1. Ashrafimoghari, V., Gürkan, N. & Suchow, J. W. (2024). "Evaluating Large Language Models on the GMAT: Implications for the Future of Business Education." arXiv preprint arXiv:2401.02985.

2. *Gürkan, N.,* & Suchow, J. W. (2023). "Harnessing Collective Intelligence Under a Lack of Cultural Consensus." arXiv preprint arXiv:2309.09787.

3. Suchow, J. W., & *Gürkan, N.* (2023). "Coincidental Generation." arXiv preprint arXiv:2304.01108.

4. *Gürkan, N.* & Suchow, J. W. (2021). "Evaluation of Human and Machine Face Detection using a Novel Distinctive Human Appearance Dataset." arXiv preprint arXiv:2111.00660.

MEDIA COVERAGE

1. *Harnessing Collective Intelligence Under a Lack of Cultural Consensus* at Montreal Ethics of Artificial Intelligence. https://montrealethics.ai/harnessing-collective-intelligence-under-a-lack-of-cultural-consensus/

TEACHING (STEVENS INSTITUTE OF TECHNOLOGY)

2024   *Instructor,* Data Analytics & Machine Learning (Spring 2024)

2023   *Instructor,* Data Analytics & Machine Learning (Fall 2023)

2023   *Guest lecturer* at Le Moyne College, *Deep Learning Applications*, taught by Yue Han.

2023   *Teaching fellow* for a section of "*Multivariate Analysis*", taught by Mohammed Ahmed.

2021   *Teaching fellow* for a recitation section of "*Computational Models of Thoughts and Behaviors*", taught by Jordan W. Suchow.

2020   *Teaching fellow,* "*Computational models of thoughts and behaviors*", taught by Jordan W. Suchow.

ACADEMIC AND VOLUNTEER SERVICE

Reviewer, Academy of Management (CTO-TIM Divisions)
Reviewer, European Conference on Information Systems
Reviewer, Cognitive Science
Reviewer, International Conference on Information Systems
Reviewer, Workshop on Information Technologies and Systems

HONORS & AWARDS

2023	Research Travel Grant ($1,500)
2023	HICSS Doctoral Consortium
2023	ICIS Doctoral Consortium
2023	Academy of Management, CTO ($1,200)
2023	AMCIS Inclusion Award ($600)
2023	AMCIS Doctoral Consortium
2023	Doctoral Excellence Nomination
2020-2023	Provost Doctoral Fellowship
2022	Neurocomputing Summer School
2020	Brains, Minds & Machines Summer Course at MIT
2018-2019	The McDevitt Research Fellow
2017	Academic Outstanding Athlete of the Year
2016-2017	State Conference Honor Roll
2016-2017	Division 2 ADA Academic Achievement Award
2016-2017	Top 15% Student Athlete GPA (President's Club)
2015-2017	NABC Honor Court Member
2015-2017	Dean's List, College of Arts & Science
2013-2017	SLU Athletic Grant
2013-2017	Pride Award
2013-2017	SLU Merit Award

REFERENCES

Jordan W. Suchow
Assistant Professor, Stevens Institute of Technology
1 Castle Point Terrance, Hoboken, NJ, 07030
jws@stevens.edu

Jeffrey Nickerson
Professor, Stevens Institute of Technology
1 Castle Point Terrance, Hoboken, NJ, 07030
jnickers@stevens.edu

Bei Yan
Assistant Professor, Stevens Institute of Technology
1 Castle Point Terrance, Hoboken, NJ, 07030
byan7@stevens.edu

Aron Lindberg
Associate Professor, Stevens Institute of Technology
1 Castle Point Terrance, Hoboken, NJ, 07030
alindber@stevens.edu