Samuel Goree

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Work Experience

2023 – Present **Assistant Professor**
Stonehill College Computer Science
Tenure-track position with teaching, research and service responsibilities.

2021 **Summer Research Assistant**
NYU Abu Dhabi. Abu Dhabi, UAE.
Worked with sociologist Dr. Kangsan Lee, to study applications of computer vision in the analysis of contemporary art markets.

2017 – 2018 **Data Scientist**
RTI International. Durham, NC.
Applied expertise in machine learning, advanced analytics, statistical modeling and web development to a variety of social science-motivated projects at a large research nonprofit.

Education

2018 – 2023 **Indiana University** – Blomington, IN
PhD in Informatics, Intelligent and Interactive Systems track.
Minor in Digital Humanities. Advisor: David Crandall

2013 – 2017 **Oberlin College** – Oberlin, OH
BA in Computer Science and Musical Studies
Graduated with High Honors in Computer Science *GPA: 3.8.*

Scholarships and Grants

2024 – 2025 **Stonehill College Pedagogical Design Grant**
Internal seed grant to redesign introductory computer science assignments to better account for generative AI.

2020 – 2023 **NSF Graduate Research Fellowship**
The NSF GRFP recognizes and supports outstanding graduate students in NSF-supported STEM disciplines who are pursuing research-based degrees at accredited US institutions.

Peer-Reviewed Conference and Journal Publications

2025 **Human-Centered Evaluation of Aesthetic Quality Assessment Models Using a Smartphone Camera Application**
Goree, S., Domingo, J., Crandall, D.
ACM Conference on Fairness, Accountability, and Transparency

2024 **Attention is All They Need: Exploring the Media Archaeology of the Computer Vision Research Paper**
Goree, S., Appleby, G., Crandall, D., Su, N.
Proceedings of the ACM in Human-Computer Interaction (CSCW 2024)

2024 **Social signals predict contemporary art prices better than visual features, particularly in emerging markets.**
Lee, K., Park, J., **Goree, S.**, Crandall, D., Ahn, Y.
Nature Scientific Reports

2023 **Correct for Whom? Subjectivity and the Evaluation of Personalized Image Aesthetics Assessment Models**
Goree, S., Khoo, W., Crandall, D.
AAAI Conference on Artificial Intelligence 2023.

2022 **"It Was Really All About Books:" Speech-like Techno-Masculinity in the Rhetoric of Dot-Com Era Web Design Books**
Goree, S., Crandall, D., Su, N.
ACM Transactions on Computer-Human Interaction (TOCHI).

2022 **HyperNP: Interactive Visual Exploration of Multidimensional Projection Hyperparameters**
Appleby, G., Espadoto, M., Chen, R.,**Goree, S.**, Telea, A., Anderson, E., Chang, R.
Eurographics Conference on Visualization (EuroViz) 2022.

2021 **What Does it Take to Cross the Aesthetic Gap? The Development of Image Aesthetic Quality Assessment in Computer Vision.**
Goree, S.
International Conference on Computational Creativity (ICCC) 2021.

2021 **Investigating the Homogenization of Web Design: A Mixed-Methods Approach.**
Goree, S., Doosti, B., Crandall, D., Su, N.
ACM CHI Conference on Human Factors in Computing Systems (CHI) 2021.

2018 **Pain Town, an Agent-Based Model of Opioid Use Trajectories in a Small Community.**
Bobashev, G., **Goree, S.**, Frank, J., Zule, W.
Social, Cultural, and Behavioral Modeling (eds Thomson, R. et al.) 2018

Workshop Papers

2023 **Whose Taste? Perspectivism and the Evaluation of Image Aesthetics Assessment Models in Computer Vision.**
Goree, S., Khoo, W., Crandall, D.
ECAI 2023 Workshop on Perspectivist Approaches to NLP

2023 **Situated Cameras, Situated Knowledges: Towards an Egocentric Epistemology for Computer Vision.**
Goree, S., Crandall, D.
CVPR 2023 Joint International 3rd Ego4D and 11th EPIC Workshop

2020 **Studying Empirical Color Harmony in Design**
Goree, S., Crandall, D.
Third Workshop on Computer Vision for Fashion, Art and Design at CVPR 2020.

Other Publications

2021 **The Limits of Colorization of Historical Images by AI**
Goree, S.
Hyperallergic.com

2020 **Yes, Websites Really are Starting to Look More Similar**
Goree, S., Doosti, B., Crandall, D., Su, N.
The Conversation

Posters (Including student posters)

2025 **A Data Structures Field Trip? Integrating a Library Visit into CS2.**
Goree, S., McComas, G., O'Leary, H.
ACM SIGCSE Technical Symposium on Computer Science Education.

2024 **Using Artificial Intelligence to Detect Hate Speech**
Domingo, J., **Goree, S.**
Stonehill SURE Poster Session

2024 **Evaluating Visual Perception Models: A Real-Time Mobile Approach for Qualitative AI Assessment**
Barry, L., **Goree, S.**
Stonehill SURE Poster Session

Teaching Experience

∗ indicates courses I proposed, developed or substantially redesigned.

S26 **DSC 205: Modeling for Data Science** ∗
An overview of inferential and modeling techniques for data science, and communication about data science. Topics include data collection, data visualization, machine learning, inferential statistical methods, and software employed by the data scientist.

S25, S26 **CSC400: Capstone: Software Engineering**
A project-based capstone course on software engineering. Students collaborate to build a working software project for a real problem brought by a client.

F23, S26 **CSC327: Human-Computer Interaction** ∗
A course on software engineering from a human-centered perspective, exploring interaction design principles, human-centered evaluation, cognitive principles, user research, social issues in computing and human-AI interaction.

S24, F24, F25 **DSC105: Introduction to Data Science** ∗
An overview of data science and the job of a data scientist. Topics include data collection, data visualization, machine learning, and elementary statistical methods employed by the data scientist.

S24, F25 **CSC321: Data Visualization** ∗
An introduction to the analysis and design of data visualizations. Topics include exploratory data analysis, algorithms for rendering, psychological factors and interactive visualization.

S25 **CSC384: Artificial Intelligence** ∗
A course on classical and modern artificial intelligence. Topics include search algorithms, optimization, game playing, probabilistic reasoning, machine learning, natural language processing, deep learning and generative AI.

S25 **CSC399: Image Processing and Computer Vision** ∗
The study of algorithms for editing and analyzing digital images. Topics include image processing techniques like resampling, filtering and recoloring as well as computer vision techniques such as classification, segmentation and image generation.

F23, S24 **CSC 102: Introduction to Programming**
An introduction to Python programming aimed at nonmajors.

S22 **INFO I-399: Python for Data Analysis (Indiana University)**
A pre-professional class for Informatics undergraduate students on the Python data analysis and data science ecosystem, including an introduction to visualization and machine learning.

F18, S19, F19, S20 **Associate Instructor, INFO I-210: Information Infrastructure 1 (Indiana University)**
Teaching assistant, lab instructor and grader for a first course in programming for Informatics undergraduate students at Indiana University.

F15, S16, F16, S17 **TA/Grader (Oberlin College)**
Served as a TA and Grader for a variety of undergraduate courses at Oberlin College including CSCI 275: Programming Abstractions, CSCI 280: Algorithms, CSCI 383: Theory of Computer Science

Other Presentations

December 2025 Is There a Human-Centered Computational Aesthetics?
MosAIcs & BrAIns: the Computational Aesthetics of Mosaic Art
Incubator for Transdisciplinary Futures at Washington University in St. Louis

May 2025 What is AI and How Are Our Students Using it?
Stonehill College Academic Development Day

March 2024 Evaluating the Evaluators: How Should Critical AI Engage with Image Aesthetic Quality Assessment?
Boston Digital Humanities Symposium

June 2022 Buying a Work of Art or an Artist? Impossibility and Possibility of Predicting Price of Artwork.
NYU Art + Data Conference 2022

September 2021 Confronting Subjectivity in Computer Vision for Art and Design History.
ICCC Doctoral Consortium

May 2021 Investigating the Homogenization of Web Design: A Mixed-Methods Approach.
Visualization Lab, Tufts University

June 2020 Why Do All Websites Look the Same Now?
Emperor Design All Hands Meeting

June 2019 Musical Interfaces, Metaphors and Online MIDI Keyboards.
Midwest Music and Audio Day

Theses

2023 Towards a Theory of Evaluation for Aesthetic Phenomenon Problems in Computer Vision *PhD Dissertation, Indiana University*

2017 Towards a Relative-Pitch Neural Network System for Chorale Composition and Harmonization. *Computer Science Honors Thesis, Oberlin College.*

2017 Structure and Randomness in Iannis Xenakis' *Analogique A. Musical Studies Capstone Thesis, Oberlin College*

Professional Memberships and Service

2025–Present Stonehill College Curriculum Committee

2021–Present Member Association for Computing Machinery

2024–Present Faculty Advisor, Stonehill Association for Computing Machinery Student Club

2026 Stonehill Mathematics Hiring Committee

2024, 2025 Stonehill Computer Science Hiring Committee

2018-2023 **Member** Graduate Informatics Student Association, Indiana Graduate Workers' Coalition

Peer Review ICLR, CHI, CSCW, DIS, ISMIR, Leonardo, EPJ Data Science.

Technical Skills

Programming languages
Proficient in: Python, R, Java, C#, HTML/CSS, Javascript
Familiar with: C, C++, SQL, Lisp, Scheme, NetLogo

Other Tools
Deep learning using PyTorch, Theano, TensorFlow; LaTeX, Git, Docker, React; Android app development

Other Skills
Ethnographic grounded theory, discourse analysis, historical webpage restoration