

Samuel Goree

sgoree@iu.edu · samgoree.github.io

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.*

Honors and Scholarships

- 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 Publications

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

Other Publications

- 2022 **Attention is All They Need: Exploring the Media Archaeology of the Computer Vision Research Paper**
Goree, S., Appleby, G., Crandall, D., Su, N.
arXiv Preprint
- 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

Work Experience

- 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.

- 2016 **Undergraduate Researcher**
Mentors: Robert Keller (Harvey Mudd College Summer REU).
Developed deep learning backend for jazz improvisation software ImproVisor with recurrent generative adversarial networks.
- 2015 **Undergraduate Researcher**
Mentors: Larry Medsker (Siena College Summer REU).
Implemented information extraction and text clustering techniques to analyze a corpus of letters to the New York State EPA.

Teaching Experience

- Spring 2022 **Instructor of Record, INFO I-399: Python for Data Analysis**
Designed and taught 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.
- Fall 2018, **Associate Instructor, INFO I-210: Information Infrastructure 1**
Spring 2019, Teaching assistant, lab instructor and grader for a first course in programming for Informatics
Fall 2019, undergraduate students at Indiana University.
Spring 2020
- Fall 2015, **TA/Grader**
Spring 2016, Served as a TA and Grader for a variety of undergraduate courses at Oberlin College including
Fall 2016, CSCI 275: Programming Abstractions, CSCI 280: Algorithms, CSCI 383: Theory of Computer
Spring 2017 Science

Presentations

- 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

- 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*

Service

- 2018-Present **Member** Graduate Informatics Student Association, Indiana Graduate Workers' Coalition
- Peer Review** ISMIR, ICLR, CHI, DIS, Leonardo.

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

Other Skills

Ethnographic grounded theory, discourse analysis, historical webpage restoration