

Samuel Goree

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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

- 2022 **Correct for Whom? Subjectivity and the Evaluation of Personalized Image Aesthetics Assessment Models**
Goree, S., Khoo, W., Crandall, D.
AAAI Conference on Artificial Intelligence 2022.
- 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
Science
Spring 2017

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