

# 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    **“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