

Samuel Goree

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217 East 1st St. Unit 1

Bloomington, IN 47401

Education

- 2018 – 2023
(expected) **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 master's and doctoral degrees at accredited US institutions.

Peer-Reviewed Publications

- 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 **HyperNP: Interactive Visual Exploration of Multidimensional Projection Hyperparameters**
Appleby, G. , Espadoto, M. , Chen, R. , **Goree, S.** Telea, A., Anderson, E., Chang, R.
ACM CHI Conference on Human Factors in Computing Systems (CHI) 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

- 2020 **Yes, Websites Really are Starting to Look More Similar**
Goree, S. Doosti, B., Crandall, D., Su, N.
The Conversation
- 2021 **The Limits of Colorization of Historical Images by AI**
Goree, S.
Hyperallergic.com

Work Experience

- 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

- 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

September 2021	Confronting Subjectivity in Computer Vision for Art and Design History. <i>ICCC Doctoral Consortium</i>
May 2021	Investigating the Homogenization of Web Design: A Mixed-Methods Approach. <i>Visualization Lab, Tufts University</i>
June 2020	Why Do All Websites Look the Same Now? <i>Emperor Design All Hands Meeting</i>
June 2019	Musical Interfaces, Metaphors and Online MIDI Keyboards. <i>Midwest Music and Audio Day</i>

Theses

2017	Towards a Relative-Pitch Neural Network System for Chorale Composition and Harmonization. <i>Computer Science Honors Thesis, Oberlin College.</i>
2017	Structure and Randomness in Iannis Xenakis' <i>Analogique A</i> . <i>Musical Studies Capstone Thesis, Oberlin College</i>

Service

2018-Present	Member Graduate Informatics Student Association
	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