

# Matt Groh

---

MIT Media Lab  
75 Amherst Street  
Cambridge, MA 02139

groh@mit.edu  
www.mattgroh.com

Education    **Massachusetts Institute of Technology**  
Ph.D. Media Arts and Sciences, 2023 (expected)  
M.A. Media Arts and Sciences, 2019

**Middlebury College**  
B.A. Economics with minors in Mathematics and Arabic, 2010

Work            **Raise Me**  
Experience    Lead Data Scientist, 2017

**Proprio Labs**  
Co-founder & CEO, 2016

**Qadium**  
Lead Data Scientist & Co-PI on DARPA's Memex, 2014-2016

**Caerus Associates**  
Data Scientist on DARPA's XDATA, 2013-2014

**The World Bank Group**  
Research Assistant, 2011-2014

**Innovations for Poverty Action**  
Project Associate, 2010-2011

Teaching      **Affective Computing (TA)**  
MIT Media Lab, Fall 2020

Working        **Deepfake Detection by Human Crowds, Machines, and**  
Papers        **Machine-Informed Crowds**  
Matthew Groh, Ziv Epstein, Chaz Firestone, Rosalind Picard  
(*under review*) 2021

# Matt Groh

---

## **Context in Automated Affect Recognition**

Matthew Groh, Rosalind Picard

*(under review)* 2021

## **Dissonance Impairs Incorporation of Perceptual Cues in Multimedia Truth Discernment**

Matthew Groh, Aruna Sankaranarayanan, Andrew Lippman

*(working paper)* 2021

## Publications

### **Evaluating Deep Neural Networks Trained on Clinical Images in Dermatology with the Fitzpatrick 17k Dataset**

Matthew Groh, Caleb Harris, Luis Soenksen, Felix Lau, Rachel Han, Aerin Kim, Arash Koochek, Omar Badri

*Proceedings of the IEEE/CVF CVPR ISIC Workshop* 2021

Honorable mention for best paper award

### **Human Detection of Machine-Manipulated Media**

Matthew Groh, Ziv Epstein, Nick Obradovich, Manuel Cebrián, Iyad Rahwan

*Communications of the ACM* 2021

### **Social Influence Leads to the Formation of Diverse Local Trends**

Ziv Epstein, Matthew Groh, Abhimanyu Dubey, Alex 'Sandy' Pentland

*Proceedings of the ACM on Human-Computer Interaction (CSCW)* 2021

### **The Presidential Deepfakes Dataset**

Aruna Sankaranarayanan, Matthew Groh, Rosalind Picard, Andrew Lippman

*IJCAI Workshop on Adverse Impacts and Collateral Effects of Artificial Intelligence Technologies* 2021

### **Habit Formation Dynamics: Finding Factors Associated with Building Strong Mindfulness Habits**

Rob Lewis, Yuanbo Lio, Matthew Groh, Rosalind Picard

*International Conference on Human-Computer Interaction* 2021

### **Shaping Habit Formation Insights with Shapley Values: Toward an Explainable AI-System for Self-Understanding and Health Behavior Change**

Rob Lewis, Yuanbo Lio, Matthew Groh, Rosalind Picard

*Proceedings of CHI: Realizing AI in Healthcare: Challenges Appearing in the Wild Workshop* 2021

# Matt Groh

---

Publications **Interpolating GANS to Scaffold Autotelic Creativity**

Ziv Epstein, Océane Boulais, Skylar Gordon, Matthew Groh  
*Proceedings of ICCG Workshops 2020*

**Toward Understanding the Impact of Artificial Intelligence on Labor**

Morgan Frank, David Autor, James Bessen, Erik Brynjolfsson, Manuel Cebrián  
David Deming, Maryann Feldman, Matthew Groh, José Lobo, Esteban Moro,  
Dashun Wang, Hyejin Youn, Iyad Rahwan  
*Proceedings of the National Academy of Science 2019*

**Evaluating Generative Adversarial Networks on Explicitly Parameterized Distributions**

Shayne O'Brien, Matthew Groh, Abhimanyu Dubey  
*NeurIPS 2018 Workshop on Critiquing and Correcting Trends in ML 2018*

**TuringBox: An Experimental Platform for the Evaluation of AI Systems**

Ziv Epstein, Blakeley Payne, Judy Hanwen Shen, Abhimanyu Dubey, Bjarke Felbo,  
Matthew Groh, Nick Obradovich, Manuel Cebrián, Iyad Rahwan  
*Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence 2018*

**The Impact of Soft Skills Training on Female Youth Employment: Evidence from a Randomized Experiment in Jordan**

Matthew Groh, Nandini Krishnan, David McKenzie, Tara Vishwanath  
*IZA Journal of Labor and Development 2016*

**Do Wage Subsidies Provide a Stepping-Stone to Employment for Recent College Graduates? Evidence from a Randomized Experiment in Jordan**

Matthew Groh, Nandini Krishnan, David McKenzie, Tara Vishwanath  
*Review of Economics and Statistics 2016*

**Macroinsurance for Microenterprises: A Randomized Experiment in Post-Revolution Egypt**

Matthew Groh, David McKenzie  
*Journal of Development Economics 2016*

**Testing the Importance of Search Frictions and Matching through a Randomized Experiment in Jordan**

Matthew Groh, David McKenzie, Nour Shammout, Tara Vishwanath  
*Journal of Labor Economics 2015*

# Matt Groh

---

Publications **Reducing Information Asymmetries in the Youth Labor Market of Jordan with Psychometrics and Skill Based Tests**

Matthew Groh, David McKenzie, Tara Vishwanath

*World Bank Economic Review* 2014

**Soft Skills or Hard Cash? The Impact of Training and Wage Subsidy Programs on Female Youth Employment in Jordan**

Matthew Groh, Nandini Krishnan, David McKenzie, Tara Vishwanath

*World Bank Policy Research Working Papers* 2012

**Oil, Islam, Women, and Geography: A Comment on Ross (2008)**

Matthew Groh, Casey Rothschild

*Quarterly Journal of Political Science* 2012