# Ari Misha Dyckovsky

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## Education

**Ph.D. Candidate**, Psychology ..... 2021 – Present
**M.A.**, Psychology ..... 2021 – 2023
*Princeton University (Advisors: Alin Coman & Eldar Shafir)*

**B.A.**, Psychology ..... 2020
*University of Denver*

Undergraduate Studies, Symbolic Systems ..... 2012 – 2014; 2017 – 2018
*Stanford University*

## Fellowships

**Graduate Research Fellow ($147,000)** ..... 2023 – Present
*National Science Foundation*

**Centennial Fellow ($20,000)** ..... 2021 – 2026
*Princeton University via The Graduate School*

**Graduate Fellow in Social Data Science ($1,400)** ..... 2023
*Princeton University via Data-Driven Social Science Initiative*

## Grants

**Large-Scale Grant ($35,208)**: "Exploring the social construction of value in blockchain systems" ..... 2023 – 2025
*Princeton University via Data-Driven Social Science Initiative*

## Scholarships, Honors & Awards

**Mission Award**, Application Statement Feedback Program ..... 2023
*Society for the Improvement of Psychological Science*

**Honorable Mention**, National Defense Science and Engineering Graduate Fellowship ..... 2023
*U.S. Department of Defense*

**Mt. Evans Scholarship ($16,000)**, Merit Scholarships ..... 2020
*University of Denver*

**Intel Young Scientist Award ($50,000)**, Intel International Science and Engineering Fair ..... 2012
*Society for Science and the Public*

**National Finalist ($7,500)**, Intel Science Talent Search ..... 2012
*Society for Science and the Public*

**Scientific Achievement Award ($7,000)**, Howard Hughes Medical Institute Scholarship Competition ..... 2012
*Howard Hughes Medical Institute*

**2nd Place, Physical Sciences ($8,000)**, National Junior Science and Humanities Symposium ..... 2011
*U.S. Department of Defense & National Science Teachers Association*

**Regional Semifinalist**, The Siemens Competition ..... 2011
*Siemens Foundation*

**Yuri Gagarin Medal for Outstanding Space Research**, The International Space Olympics ..... 2010
*S.P. Korolyov Energia Space and Rocket Corporation*

## CURRENT PROJECTS

**Dyckovsky**, A. M., & Coman, A. (in progress). The social construction of value: An ecologically grounded theory of endowment.

**Dyckovsky**, A. M., & Coman, A. (in progress). Exploring collective endowment effects in cryptocurrency communities.

**Dyckovsky**, A. M., & Sokol-Hessner, P. (in progress). Rubber-necking the good and the bad: Dissociating orientation and value with computational models of gaze.

Reinero, D. A., **Dyckovsky**, A. M., & Coman, A. (in prep). Moral tipping points in social networks.

Sokol-Hessner, P., **Dyckovsky**, A. M., Andrews, E., & Daw, N. D. (in prep). The dynamics of continuous self-control: Inferring value from gaze behavior.

## PUBLICATIONS

Vlasceanu, M., **Dyckovsky**, A. M., & Coman, A. (2024). A network approach to investigate the dynamics of individual and collective beliefs: Advances and applications of the BENDING model. *Perspectives on Psychological Science*, *19*(2), 444–453.

Brown, R. C., Olmschenk, S., Wu, S., **Dyckovsky**, A. M., Wyllie, R., & Porto, J. V. (2013). Note: Pneumatically actuated and kinematically positioned optical mounts compatible with laser-cooling experiments. *Review of Scientific Instruments*, *84*(9), 096101.

**Dyckovsky**, A. M., & Olmschenk, S. (2012). Analysis of photon-mediated entanglement between distinguishable matter qubits. *Physical Review A*, *85*(5), 052322.

## RESEARCH EXPERIENCE

**Graduate Research Assistant**, Department of Psychology — 2021 – Present
*Princeton University* (*Advisor: Alin Coman*)

**Lab Manager & Research Assistant**, Department of Psychology — 2020 – 2021
*University of Denver* (*Advisor: Peter Sokol-Hessner*)

**Research Assistant**, Negotiation, Organizations & Markets Unit — 2020 – 2021
*Harvard Business School* (*Advisor: Amit Goldenberg*)

**Research Assistant**, Department of Psychology — 2017 – 2018
*Stanford University* (*Advisor: Amit Goldenberg*)

**Student Researcher**, Atomic Physics Division — 2010 – 2012
*National Institute of Standards and Technology* (*Advisor: Steven Olmschenk*)

## INDUSTRY EXPERIENCE

**Founder**, Keep It Crafted, LLC — 2018 – 2020

**Founder & Chief Executive Officer**, Kettle Group, Inc. — 2015 – 2017

**Co-Founder**, Argo Technologies, Inc. (Acquired by Tableau) — 2013 – 2015

**Intern**, IEX Group, Inc. — 2013

## SERVICE

**Treasurer**, Empowering Tomorrow's Human-AI Interaction & Ethics Community ("ETHICOM") — 2023 – Present

**Director of Infrastructure**, Application Statement Feedback Program [www.asfp.io] — 2020 – Present

**Graduate Student Committee**, Princeton University Department of Psychology — 2022 – 2023

**Creator & Core Maintainer**, Start Your Lab [www.startyourlab.com] — 2021

## Ad-Hoc Reviews

*Nature, Perspectives on Psychological Science*

## Teaching

**Assistant Instructor** for PSY 304: Social Cognition                                      Fall 2024
*Princeton University*

**Assistant Instructor** for PSY 320: Psychotherapy Theories and Skills                     Spring 2023
*Princeton University*

**Assistant Instructor** for SPI 340: Psychology of Decision-Making and Judgment            Fall 2022
*Princeton University*

## Selected Presentations

**Dyckovsky**, **A. M.**, & Coman, A. (2024, October). Resilience to crisis: A case study of cryptocurrency communities over the FTX collapse. *Research in Behavioral Finance Conference.*

**Dyckovsky**, **A. M.** (2023, October). The psychological construction of value: An empirical investigation of cryptocurrency communities. *Princeton University, Department of Psychology.*

**Dyckovsky**, **A. M.**, & Sokol-Hessner, P. (2021, April). Best practices for modern social science: Managing teams, projects, and code to facilitate digital collaboration, documentation, and open science. *University of Denver, Department of Psychology.*

**Dyckovsky**, **A. M.** (2013, December). Quantum entanglement and the future of data. *TTI/Vanguard [next] Conference.*

**Dyckovsky**, **A. M.** (2012, May). Analysis of photon-mediated entanglement between distinguishable matter qubits. *Intel International Science and Engineering Fair.*

**Dyckovsky**, **A. M.** (2010, October). *Analysis of ground-to-satellite entanglement-enhanced quantum communication with quantum memories.* The International Space Olympics.

## News & Media

Stanford dropouts' "Argo" raises $1.5M from Accel to stitch together companies' small data. (2015). *TechCrunch.*

Loudoun science prodigy leaves college to launch tech company. (2014). *The Washington Post.*

The quantum kid: High school senior authors a groundbreaking physics paper. (2013). *The Takeaway.*

Physicists foretell quantum internet with entangled photon router. (2012). *Wired.*

Teen solves quantum entanglement problem for fun. (2012). *Wired.*

Loudoun's Ari Dyckovsky, 18, blazing trail in quantum physics. (2012). *The Washington Post.*

Loudoun teen competes for Intel science prize. (2012). *The Washington Post.*

## Selected Skills

**Techniques**     Behavioral Experiments, Agent-Based Modeling, Natural Language Processing, Network Science, Statistical Inference, Data Visualization, User Interface Design, Application Programming Interfaces

**Languages**      Python, JavaScript, R, MATLAB, *Mathematica*, HTML, CSS, C/C++, Google Apps Script, Terraform, LaTeX, SQL, NetLogo, Q, Git, Vim, Markdown, Bash

**Frameworks**     Polars, PyTorch, NetworkX, Pandas, Altair, D3, ggplot2, React, Poetry

**Databases**      Neo4j, PostgreSQL, SQLite, MongoDB, DynamoDB, Redis, kdb+

**Tools**          GitHub, Amazon Web Services (e.g., S3, SageMaker, EC2), Docker, Slack, VSCode, RStudio, Qualtrics, SPSS, Figma, Photoshop, Lightroom, Microsoft Office