

MANON REVEL

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🌐 <https://manrev.github.io/manon/>

Applied Mathematician - Computational Social Scientist - AI for Democracy

Education

Massachusetts Institute Technology	<i>PhD in Social and Engineering Systems and Statistics</i>	Sep.19-Aug.23
Massachusetts Institute Technology	<i>MSc in Technology and Policy</i>	Sep.17-Jun.19
École Centrale Paris	<i>BSc of Engineering & MSc Applied Mathematics</i>	Sep.15-Jun.17

Awards (selection)

AISST AI Safety Fellowship	Builds a community of Harvard AI Alignment Researchers	2024
Harvard Democracy Fellowship	Rewards students leading democratic innovations at the Ash Center	2022
Hammer Fellowship	Award that empowers first-year MIT IDSS PhD students	2019
Centrale Talent	Awards outstanding achievements of an BSc student	2017

Experience

Meta - FAIR Labs ~ <i>Postdoctoral AI Research Scientist</i>		<i>New York, NY</i>
<ul style="list-style-type: none">Research interplay of algorithms (LLMs and recommender systems) and social systems		Sep.24-Now
Harvard Law School - Berkman Klein Center ~ <i>Postdoctoral Fellow</i>		<i>Cambridge, MA</i>
<ul style="list-style-type: none">Set up AI and Democracy research program involving 8 collaborators and leading to 3 publicationsLed research on modeling and aligning AIs with human values in Reinforcement Learning from Human Feedback		Sep.23-Aug.24
Responsible AI Institute ~ <i>Research Scientist</i>		<i>Remote</i>
<ul style="list-style-type: none">Advised clients to deploy foundation models for operations in the Responsible AI framework I co-created		Sep.23-Feb.24
MIT - Institute for Data, Systems, and Society ~ <i>PhD Researcher</i>		<i>Cambridge, MA</i>
<ul style="list-style-type: none">Authored mathematical theories for collective decision-making statistically validated with 10+ experimentsPioneered interdisciplinary collaboration across MIT and Harvard with publications in top journal and AI conferences		Sep.17-Aug.23
Palantir Technologies ~ <i>Deployment Strategist Intern</i>		<i>New York, NY</i>
<ul style="list-style-type: none">Conceived and deployed data workflows in the Utility space to augment real-time data-driven decisions		May.-Aug.22
Aerospacelab ~ <i>Strategic Engineer Consultant</i>		<i>Mont-Saint-Guibert, Belgium</i>
<ul style="list-style-type: none">Built modules to monitor information virality rooted in state-of-the-art NLP and network analysis		Jul.-Aug.19
Center for Strategic and International Studies ~ <i>Policy Research Intern</i>		<i>Washington, DC</i>
<ul style="list-style-type: none">Investigated AI regulation's impact on people's relation to information for policy-makers		May.-Aug.18
Nokia Bell Labs ~ <i>Machine Learning Research Intern</i>		<i>Murray Hill, NJ</i>
<ul style="list-style-type: none">Optimized slice allocation with forecasting and time series analyses to lower communication latency		Jun.-Aug.17

Teaching

Notre Dame University	<i>Adjunct Professor</i>	Deliberative Technologies and Computational Democracy	Jun.24
MIT IDSS	<i>Lecturer</i>	Linear Algebra, Probability and Statistics	Feb.21-Jan.24
MIT Media Lab	<i>Lecturer</i>	Decentralized Society, Cooperation and Plurality	Jan.24
MIT Sloan	<i>Teaching Assistant</i>	Data, Model, and Decisions	Jul.20-Aug.21

Skills & Interests

Computer Languages	Python (preferred), R, SQL, HTML (experienced), JAVA, Matlab, CSS (basic)
Human Languages	French (native), English (fluent), Italian (proficient), Spanish (basic)
Activities	Basketball, Windsurfing

Publications

My work has been published in a variety of disciplinary venues. In some fields, it is the norm to order authors alphabetically. Such contributions are noted α . First author contribution is marked with *.

Journal Papers

α Lubin, Mayberry, Moses, **Revel***, Thorburn*, West 2024, Framework for Regulating Social Technologies, *MIT Science Policy Review*

α Berinsky, Halpern, Halpern, Mossel, Procaccia, Jadbabaie, **Revel***, 2024, Tracking Truth with Liquid Democracy, *Management Science*

Revel*, 2023, How to Open Democratic Representation?, *European Journal of Risk Regulation, Cambridge University Press*

Manchaiah, Londero, Deshpande, **Revel**, Palacios, Boyd and Ratinaud, 2022, Online discussions about tinnitus: What can we learn from natural language processing of Reddit posts?, *American Journal of Audiology*

Park, Abecassis, **Revel**, 2021, Varieties of Resonance: The Subjective Interpretations and Utilizations of Media Output in France, *Poetics*

AI Conference Papers

Ovydaya, Thorburn, Redman, Devine, Milli, **Revel**, Konya, Kasirzadeh, 2024, Democratic Levels for AI, NeurIPS

Revel*, Bohemer, Brill, Colley, Elkind, Faliszewski, 2024, Selection Representative Bodies: An Axiomatic View, AAMAS

α Halpern*, Halpern, Jadbabaie, Mossel, Procaccia, **Revel***, 2023, In Defense of Liquid Democracy, EC

Revel*, Lin*, Haleprn*, 2022, How Many Representatives Do We Need? The Optimal Size of an Epistemic Congress, AAI

Revel*, Haleprn, Berinsky, Jadbabaie, 2022, Liquid Democracy in Practice: An Empirical Analysis of its Performance, EAAMO

Preprints

Revel*, Cargnelutti*, Eloundoun, Leppert, 2024, SEAL: Systematic Error Analysis for Value Alignment

Revel*, Tohidi, Eckles, Berinsky, Jadbabaie, 2021, Native advertisement and the credibility of online publishers

Expository Writing

Lubin, Mayberry, **Revel**, Thorburn, 2024, Unexplored Ways to Regulate Social Media, *Tech Policy Press*

Revel*, 2024, Can We Talk? An Argument for More Dialogues in Academia. *HKS Ash Center Essay Series*

Papaemmanuel, **Revel**, 2022, Foundry: Think global, act local, *Palantir Blog*

Revel*, Haupt*, 2020, Rules of Thumb: Adjusting Class Schedules in Fall Term, *MIT ISOLAT*

Haupt*, **Revel***, 2020, A privacy-preserving opt-out mechanism for returning to campus, *MIT ISOLAT*

Revel*, 2019, Internet, Tu Mens!, *L'Hémicycle*

Academic Service

AAAI, CDC, ACC, AAMAS, ECAI, Review of Economic Studies
Mechanism Design for Social Good - Civic Participation
University of Zurich - Liquid Democracy
International Conference of the Web and Social Media

Reviewer

Research Group Co-Lead

Workshop Co-organizer

Workshop Co-organizer

Jun.19-Now

Jun.21-Jan.24

Dec.22

Jun.21

Speaker (selection)

Society for Institutional and Organisational Economics - University of Chicago	~ <i>Democratic AI</i>	Jun.24
Equitable Tech Summit - DR Center	~ <i>Human and AI Governance</i>	Jun.24
Trust and Human Connection in the Age of AI - MIT	~ <i>Tech-Enhanced Citizen Assemblies</i>	May.24
Democracy and Technology - Harvard	~ <i>Discussion with Larry Lessig and Claudia Chwalisz</i>	May.24
University of Groningen	~ <i>Human and AI Governance</i>	Mar.24
International Workshop on Reimagining Democracy 2023	~ <i>Can We Talk?</i>	Dec.23
Social Choice for AI - UC Berkeley	~ <i>Liquid Democracy and AI Safety</i>	Dec.23
Computer Science Speaker Series - Brown University	~ <i>Mathematical Models for Democracy</i>	Nov.23
Political Science Class - University of Neuchâtel	~ <i>AI and Democracy</i>	Oct.23
Economics and Computation EC'23 - Kings College	~ <i>In Defense of Liquid Democracy</i>	Jun.23
AI for Institutions - CAIF/CIP/Oxford University	~ <i>AI Governance</i>	Apr.23
Spread of Misinformation and Collective Action - MIT	~ <i>The Institutional Design Problem</i>	Apr.23
Future Generation Worksop - Maastricht University	~ <i>How to Open Democratic Representation?</i>	Mar.23
Open Neighbourhood Seminar - Harvard Mathematics	~ <i>The Mathematics of Democracy</i>	Mar.23
Entretiens de New York - French Consulate in New York	~ <i>Garry Kasparov and Hubert Vedrine interview</i>	Mar.23
Metagov Seminar	~ <i>Liquid Democracy in Practice</i>	Feb.23
Plurality Research Network Conference - UC Berkeley	~ <i>Governance with Proxy Democracy</i>	Jan.23
International Workshop on Reimagining Democracy 2022	~ <i>How to Open Democratic Representation</i>	Dec.22
Computational Social Choice Seminar	~ <i>Democratic Innovations and Social Choice</i>	Nov.22
Modeling Seminar - GoogleX Alphabet	~ <i>Modeling Democratic Innovations</i>	Nov.22
University of Amsterdam	~ <i>In Defense of Liquid Democracy</i>	Oct.22
INFORMS 2022	~ <i>Democracy Mechanisms for emerging forms of democratic participation</i>	Oct.22
SDSCon 2022 - MIT	~ <i>Collective Decision-Making in Representative Democracy</i>	Apr.22
Datascientest	~ <i>Data and Models to Study Alternative Voting Systems</i>	Sep.22
Law and Technology Class - HEC Paris	~ <i>Innovating with Democratic Representation</i>	Sep.22
Debating Europe	~ <i>What should democracy look like in the 21st century?</i>	Feb.22
AAAI Conference on Artificial Intelligence 2022	~ <i>Optimal Congress Size</i>	Feb.22
VCCA21 2021	~ <i>What can we learn about tinnitus from social media posts? (Best Pitch Award)</i>	Jun.21
WiDS 2020	~ <i>Data weaponized, data scrutinized: a war on information</i>	May.20

Work Coverage

Book	Munther Dahleh ~ <i>Data, Systems and Society: Harnessing AI for Societal Good</i> , Cambridge Press	Apr.25
Social Media	CentraleSupélec Social Media ~ <i>Maths rescuing democracy +100,000 views across social media</i>	Feb.22
	IDSS News ~ <i>Aligning Decision-Making Processes with Democratic Values</i>	Apr.23
Journals	MIT News ~ <i>Understanding how people make sense of information in the information age</i>	Nov.20
	MIT News ~ <i>Combining artificial intelligence with their passions</i>	Aug.19
	Alter Ago Le Mag ~ <i>Manon Revel: Under and beyond algorithms</i>	Sep. 18