James Michelson

CONTACT INFORMATION	Department of Philosophy, 161 Baker Hall Carnegie Mellon University, Pittsburgh, PA 15213	jamesmic@andrew.cmu.com jmemich.github.io

EDUCATION

Carnegie Mellon University, Pittsburgh, USA

PhD, Logic, Computation and Methodology   (expected 2024)
- Thesis: 'Essays in Mechanism Design'
- Committee: Alexey Kushnir (supervisor), Kevin Zollman (co-supervisor), Vincent Conitzer

MSc, Logic, Computation and Methodology   2018 – 2021

University of Toronto, Toronto, Canada

MA, Political Science   2011 – 2012

London School of Economics and Political Science, London, UK

BSc, Government   2007 – 2010

WORKING PAPERS

'Reflexive Measurement'

'Developing a Philosophical Framework for Fair Machine Learning: Lessons From The Case of Algorithmic Collusion'

'Optimal Multi-dimensional Auctions: Conjectures and Simulations' (with Alexey Kushnir)

'The Futility of Statistics Without History' (draft available on request)

CONFERENCE PRESENTATIONS

'The Futility of Statistics Without History', *25th ESHET Summer School in History of Economic Thought, Economic Philosophy and Economic History*, August 2023
'Incentive-Compatible Sampling Estimators', *International Conference on Computational Social Science (IC2S2)*, July 2023
'Developing a Philosophical Framework for Fair Machine Learning: The Case of Algorithmic Collusion and Market Fairness', *Neural Information Processing Systems 34 (NeurIPS)*, Workshop on Fair AI in Finance, December 2020

POSTER PRESENTATIONS

'Simulating Optimal Multi-Dimensional Auctions' (with Alexey Kushnir), *Pennsylvania Economic Thoery Conference*, April 2022
'Future-Proofing Democratic Institutions: Lottocracy as a Prophylactic Against Disinformation', *IDeaS Center Summer Institute*, June 2021
'Theory Choice and Overdetermination of Evidence: The Case of The 1854 London Cholera Outbreak', *Philosophy of Science Association*, January 2021

INDUSTRY EXPERIENCE

Civis Analytics, Chicago, IL & Washington, DC, USA

Senior Data Scientist & Data Scientist   2014 – 2018
- Core software engineer on CivisML, a cloud-based, distributed machine learning application
- Project lead responsible for new approach to forecasting individual-level election participation from transactional voting data

- Additional projects: sparse data modeling algorithms, combinatorial optimization algorithms for media spending, database administration

Vox Pop Labs, Toronto, Canada

Data Scientist, 2013 – 2014
- Worked on statistical methods powering the Vote Compass application.

GRANTS	Accenture Labs, Algorithmic Collusion research grant, $50,000 (total costs); (Co-Investigator) with David Danks (CMU)	2020 – 2021

AWARDS & SCHOLARSHIPS	Knight Fellow, IDeaS Center, CMU	2020 – 2021
	AW Mellon Foundation Digital Humanities Fellowship, CMU	2018 – 2019
	Dr. David Chu Scholarship in Asia Pacific Studies, University of Toronto	2012
	Department of Political Science Fieldwork Scholarship, University of Toronto	2012

ADDITIONAL ACADEMIC EXPERIENCE

University of Turin, Turin, Italy 2023

Visiting Student, European Society for the History of Economic Thought Summer School

University of Riga, Riga, Latvia 2019

Visiting Student, European Summer School in Logic, Language and Information

University of Michigan, Ann Arbor, MI 2013

Program Scholar, Inter-university Consortium for Political and Social Research

Institut Teknologi Bandung, Bandung, Indonesia 2012

Fieldwork, School of Architecture, Planning, and Policy

TEACHING EXPERIENCE

(As intructor of record)
80130 - Introduction to Ethics Summer 2023
  Department of Philosophy, Carnegie Mellon University

(As teaching assisstant)
80135 - Introduction to Political Philosophy (with Prof Derrick Gray) Spring 2023
  Department of Philosophy, Carnegie Mellon University
80100 - Introduction to Philosophy (with Prof Krzysztof Mierzewski) Fall 2022
  Department of Philosophy, Carnegie Mellon University
80100 - Introduction to Philosophy (with Prof Joel Smith) Spring 2022
  Department of Philosophy,Carnegie Mellon University
POL2504 - Introduction to Graduate Statistics (with Prof Chris Cochrane) Fall 2012
  Department of Political Science, University of Toronto

(As grader)
80-305/605 - Decision Theory (with Prof Adam Bjorndahl) Fall 2020
  Department of Philosophy, Carnegie Mellon University
80-220 - Philosophy of Science (with Prof Kevin Kelly) Fall 2019
  Department of Philosophy, Carnegie Mellon University

PROFESSIONAL SERVICE	CMU Philosophy Department Graduate Student Representative (2021 – 2022)
	CMU Philosophy Department PhD Applications Committee (2020 – 2021)
	(Co-organizer) University of Pittsburgh-CMU 2019 Graduate Philosophy Conference
	CMU Digital Humanities Summer Workshop 2019
	Self-Appointed Fridge Tsar, CMU Philosophy Graduate Student Kitchen
REFEREE	*Philosophy of Science*
POPULAR WRITING	'The Joys of Reading Python Source Code', Civis Analytics Blog, October 2017
PROGRAMMING	Python, R, C, C++, Ruby, Go, SQL, bash
LANGUAGES	English (native), French (fluent), Italian (basic)
CITIZENSHIP	USA, UK

REFERENCES

Alexey Kushnir
  Associate Professor
  Tepper School of Business
  Carnegie Mellon University

Kevin Zollman
  Professor
  Department of Philosophy, Department of Social and Decision Sciences
  Carnegie Mellon University

David Danks
  Professor
  Halicioglu Data Science Institute, Department of Philosophy
  University of California, San Diego

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