

# Jacob Jameson

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## EDUCATION

<b>Harvard University</b> <i>Ph.D. in Health Policy and Decision Sciences</i>	Cambridge, MA <i>Aug. 2022 – May 2027</i>
<b>University of Chicago</b> <i>Master of Science in Computational Analysis and Public Policy</i>	Chicago, IL <i>Sep. 2020 – Jun. 2022</i>
<b>Johns Hopkins School of Education</b> <i>Teaching Certification in Secondary Mathematics and Computer Science</i>	Baltimore, MD <i>Aug. 2018 – Dec. 2019</i>
<b>University of California, Santa Cruz</b> <i>Bachelor of Arts in Economics and Mathematics</i>	Santa Cruz, CA <i>Sep. 2015 – Jun. 2018</i>

## RESEARCH EXPERIENCE

<b>Machine Learning Research Fellow (NIMH T32 Fellowship)</b> <i>Brigham and Women's Hospital, Division of Pharmacoepidemiology</i> <ul style="list-style-type: none"><li>Developing causal machine learning methods for comparative effectiveness research in suicide prevention using nationwide electronic health record databases</li></ul>	Boston, MA <i>Jun. 2024 – Present</i>
<b>Data Scientist</b> <i>Boston Children's Hospital, General Pediatrics Division</i> <ul style="list-style-type: none"><li>Engineered automated ETL pipelines (Python/Airflow) and interactive dashboards (React/D3.js) enabling real-time clinical insights</li></ul>	Boston, MA <i>Jun. 2023 – Sep. 2024</i>
<b>Data Scientist, Methods Core</b> <i>Center for Health and the Social Sciences, University of Chicago</i> <ul style="list-style-type: none"><li>Built longitudinal data pipelines using R and SAS to process MarketScan commercial claims (17-53M patients/year) and HCUP databases</li></ul>	Chicago, IL <i>Nov. 2020 – Aug. 2022</i>
<b>Data Analyst</b> <i>University of Chicago Law School</i> <ul style="list-style-type: none"><li>Analyzed systematic legal violations and racial disparities across 600+ bail hearings in 4 federal district courts</li></ul>	Chicago, IL <i>May 2021 – Aug. 2021</i>

## PROFESSIONAL EXPERIENCE

<b>Health Policy Consultant</b> <i>Aerospace Technical Services</i> <ul style="list-style-type: none"><li>Developing decision analysis software for healthcare applications including cost-effectiveness modeling, Markov simulation, and partitioned survival analysis</li></ul>	Remote <i>Aug. 2025 – Present</i>
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## PUBLICATIONS

- [1] Glasser NJ, **Jameson JC**, Abbou Baker N, Pollack HA, Tung EL. "Sex Differences in Life Course Suicide Rates by State Firearm Policy Environment," *American Journal of Preventive Medicine*, 2025; 0749-3797. DOI: 10.1016/j.amepre.2025.107961
- [2] Saulsberry L, **Jameson JC**, Gibbons RD, Dolan ME, Olopade OI, O'Donnell PH. "A National Study Among Diverse US Populations of Exposure to Prescription Medications with Evidence-Based Pharmacogenomic Information," *Clinical Pharmacology & Therapeutics*, 2025; 117:1793–1802. DOI: 10.1002/cpt.3617
- [3] **Jameson JC**, Saghaian S, Huckman RS, Hodgson N. "Variation in batch ordering of imaging tests in the emergency department and the impact on care delivery," *Health Services Research*, 2025; 60(1):e14406. DOI: 10.1111/1475-6773.14406
- [4] Tarantino G, et al. (including **Jameson JC**). "Genomic heterogeneity and ploidy identify patients with intrinsic resistance to PD-1 blockade in metastatic melanoma," *Science Advances*, 2024; 10(48):eadp4670. DOI: 10.1126/sciadv.adp4670
- [5] Glasser NJ, **Jameson JC**, Huang ES, Kronish IM, Lindau ST, Peek ME, Tung EL, Pollack HA. "Male Gender Expressivity and Diagnosis and Treatment of Cardiovascular Disease Risks in Men," *JAMA Network Open*, 2024; 7(10):e2441281. DOI: 10.1001/jamanetworkopen.2024.41281

- [6] Glasser NJ, **Jameson JC**, Tung EL, Lindau ST, Pollack HA. "Associations of Adolescent School Social Networks, Gender Norms, and Adolescent-to-Young Adult Changes in Male Gender Expression With Young Adult Substance Use," *Journal of Adolescent Health*, 2024; 74(4):755–763. DOI: 10.1016/j.jadohealth.2023.11.018
- [7] Soo J, **Jameson JC**, Flores A, Dubin L, Perish E, Afzal A, Berry G, DiMaggio V, Krishnamoorthi VR, Porter J, Tang J, Meltzer D. "Does the Doctor-Patient Relationship Affect Enrollment in Clinical Research?" *Academic Medicine*, 2023; 98(6S):S17–S24. DOI: 10.1097/acm.0000000000005195

## WORKING PAPERS

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- [1] **Jameson JC**, Saghaian S, Huckman RS, Hodgson N, Baugh J. "The Impact of Batch Ordering Imaging Tests in Emergency Departments." Revise and resubmit at *Management Science*.
- [2] **Jameson JC**, Glasser NJ, Pollack HA. "Effectiveness of Extreme Risk Protection Orders in Reducing Firearm Deaths: A Bayesian Analysis of State-Level Implementation, 1999–2023." Under review at *NEJM Evidence*.
- [3] **Jameson JC**, Lyndon S, Gibbons J, Wang P. "Psychotherapy Selection in Patients at Suicide Risk: EHR-Based Machine Learning Study of Modality Drivers, Treatment Effects, and Personalized Optimization." Manuscript in preparation.
- [4] **Jameson JC**, Saghaian S, Liu D, Tarantino G, Gusev S. "Determining Performance Thresholds for Biomarker-Guided Treatment Selection: A Decision-Analytic Framework Applied to Advanced Melanoma." Manuscript in preparation.

## PRESENTATIONS

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- INFORMS Annual Meeting 2025** Atlanta, GA  
*Oral presentation: The Impact of Batching Advanced Imaging Tests in Emergency Departments* Oct. 2025  
 • Finalist, INFORMS Health Applications Society Best Student Paper Competition
- INFORMS Annual Meeting 2025** Atlanta, GA  
*Oral presentation: Biomarker-Guided Immunotherapy in Metastatic Melanoma* Oct. 2025  
 • Session Chair: Precision in Practice: Decision Intelligence in Healthcare: Operations, AI, and Optimization
- Society for Medical Decision Making Annual Meeting 2024** Springfield, MA  
*Poster presentation: The Impact of Batching Advanced Imaging Tests in Emergency Departments* Oct. 2024
- INFORMS Annual Meeting 2024** Seattle, WA  
*Oral presentation: The Impact of Batching Advanced Imaging Tests in Emergency Departments* Oct. 2024  
 • Session Chair: Precision in Practice: Data Insights in Healthcare Management  
 • Session Chair: Public Health Applications in Decision Analysis
- INFORMS Annual Meeting 2023** Phoenix, AZ  
*Oral presentation: The Impact of Batching Advanced Imaging Tests in Emergency Departments* Oct. 2023  
 • Session Chair: Improving Health Decision-Making: Screening, Diagnosis, and Policy  
 • Finalist for PSOR Best Video Award
- INFORMS Healthcare 2023** Toronto, ON, Canada  
*Oral presentation: The Impact of Batching Advanced Imaging Tests in Emergency Departments* Jul. 2023  
 • Session Chair: Evidence Based Approaches for Improved Health Care Delivery

## HONORS, AWARDS, AND FELLOWSHIPS

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- Finalist, INFORMS Health Applications Society Best Student Paper Competition** 2025  
 • "The Impact of Batching Advanced Imaging Tests in Emergency Departments"  
 • INFORMS Annual Meeting, Atlanta, GA  
 • Selected as 1 of 4 finalists from 38 submissions through two-round peer review process
- National Research Service Award (NRSA) T32 Fellowship** 2024–Present  
 • National Institute of Mental Health predoctoral training fellowship for comparative effectiveness research in suicide prevention (T32 MH125815)  
 • Annual funding: \$27,144 stipend + \$2,500 childcare + \$750 training/travel
- Dean's Award for Excellence in Student Teaching** 2024  
 • Harvard Kennedy School of Government
- Distinction in Student Teaching Award** 2024, 2025  
 • Harvard Kennedy School of Government
- Howard Raiffa Research Fund** 2023–2024

- Center for Health Decision Science award for LLM applications in precision medicine (\$6,500)

#### **Howard Raiffa Research Fund**

2022–2023

- Center for Health Decision Science award for emergency department operations research (\$6,500)

#### **Finalist, INFORMS Public Sector Operations Research Best Video Award**

2023

- INFORMS Annual Meeting, Phoenix, AZ

### PROFESSIONAL SERVICE

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#### Professional Organizations

##### **Society for Medical Decision Making (SMDM)**

- Short Course Co-Chair, 2026 and 2027 Annual Meetings
- Short Course Instructor (2023, 2024)

##### **Institute for Operations Research and the Management Sciences (INFORMS)**

- Health Applications Society Student Liaison (2022–2024)

#### Peer Review

##### **Ad Hoc Reviewer**

- Medical Decision Making (2025)
- Journal of Public Health and Emergency (2025)
- Society for Medical Decision Making Annual Meeting (2024, 2025)

### TECHNICAL SKILLS

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**Languages/Software:** R, Python, Stata, SQL, SAS, JavaScript, HTML/CSS, Java, TreeAge

**Frameworks:** Spark, React, AWS, Flask, Django, D3

**Developer Tools:** Git, Docker, Visual Studio

### TEACHING

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#### Instructor of Record

##### **Harvard Kennedy School of Government**

- Economics for Public Policy, PPIA Junior Summer Institute (2024, 2025)
- Math Camp for Incoming PhD Students (Public Policy, Health Policy, Business) (2023, 2024, 2025)

##### **University of Chicago, Center for Translational Science**

- Data, Quantitative Methods, and Applications in Health Services Research. Co-Instructor (2021, 2022, 2023)

##### **University of Chicago, Harris School of Public Policy**

- Coding Lab for Public Policy. Instructor (2021)

##### **Teach For America, Achievement First Amistad Academy**

- 7th/8th Grade Mathematics. Mathematics Teacher (2018–2020)

#### Teaching Fellow

##### **Harvard T.H. Chan School of Public Health**

- Decision Science for Public Health (2023, 2024, 2025)

##### **Harvard Kennedy School of Government**

- Game Theory (2023, 2024)
- Big Data and Machine Learning (2023, 2024)
- Data and Programming for Policymakers (2023)
- Resources, Incentives, and Choices I: Markets and Market Failures (2022, 2023, 2024)

##### **University of Chicago, Center for Translational Science**

- Introduction to Health Services Research (2021)

##### **University of Chicago, Department of Computer Science**

- Machine Learning for Public Policy (2022)
- Mathematics for Data Analysis and Computer Science (2022)

##### **University of Chicago, Booth School of Business**

- Introductory Finance (2020, 2021, 2022)
- Data Analysis in R and Python (2021)

#### Professional Workshops

##### **Society for Medical Decision Making, Annual Meeting**

- An Introduction to Reproducible Programming and Project Management. Instructor (2024)
- Transparent Programming: Important Habits for Reproducibility and Research Integrity. Instructor (2023)