



H A R V A R D | B U S I N E S S | S C H O O L

October, 2023

Joshua Lev Krieger

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EDUCATION

- 2017 PhD, MIT Sloan School of Management
Dissertation: Essays in Learning and Strategy in Research and Development
Committee: Pierre Azoulay (chair)
 Scott Stern
 Fiona Murray
 Alessandro Bonatti
- 2008 B.A., Cornell University, Economics and Government

HARVARD UNIVERSITY

- July 2017 – Present Høegh Family Associate Professor of Business Administration
- July 2017 – June 2023 Assistant Professor of Business Administration

Teaching Assignments

- 2021 – Present Tough Tech Ventures, Second-year elective, Spring
- 2018 – 2021 The Entrepreneurial Manager, First-year required curriculum, Spring

WORK EXPERIENCE

- 2008-2011 Cornerstone Research, Boston, MA
 Economic and Litigation Consulting

FELLOWSHIPS & GRANTS

- 2016 – 2021 National Science Foundation, Science of Science & Innovation Policy (SciSIP) Grant
“Collaborative Research: The Impact of Research Costs on the Direction of Scientific
Discovery Frontier Tools & Applications” (with Jeffrey Furman, Florenta Teodoridis and
Ajay Agrawal)

- 2016 Kauffman Dissertation Fellowship
- 2016 Value of Medical Research Fellowship, National Bureau of Economic Research
- 2014 Hammond, Krasner and Roberts Entrepreneurship Research Grant
- 2014 Sloan Foundation Research Grant Program on the Economics of Knowledge Contribution and Distribution (with Pierre Azoulay and Jeffrey Furman)
- 2011 – 2017 Ronald A. Kurtz Doctoral Fellowship, MIT Sloan

AWARDS AND HONORS

- 2018 Technology and Innovation (TIM) Best Dissertation Finalist, Academy of Management
- 2018 London Business School Summer Finance Symposium Best Paper Award
- 2017 Red Rock Finance Conference Best Paper Award
- 2017 MIT Sloan Thesis Prize (First Place)

PUBLICATIONS

Journal Articles:

Krieger, Joshua L., Kyle R. Myers, and Ariel D. Stern. "How Important is Editorial Gatekeeping? Evidence from Top Biomedical Journals." *The Review of Economics and Statistics* (2023).

Krieger, Joshua, Xuelin Li, and Richard T. Thakor. "Find and Replace: R&D Investment Following the Erosion of Existing Products." *Management Science* (March 2022).

Krieger, Joshua, Danielle Li, and Dimitris Papanikolaou. "Missing Novelty in Drug Development." *Review of Financial Studies* 35, Issue 2 (February 2022): 636-679.

Benmelech, Efraim, Janice Eberly, Dimitris Papanikolaou, and Joshua Krieger. "Private and Social Returns to R&D: Drug Development and Demographics." *AEA Papers and Proceedings* 111 (May 2021): 336–340.

"Trials and Terminations: Learning from Competitors' R&D Failures." *Management Science* 67, no. 9 (September 2021): 5525-5548.

Azoulay, Pierre, Alessandro Bonatti, and Joshua Lev Krieger. "The Career Effects of Scandal: Evidence from Scientific Retractions." *Research Policy* 46, no. 9 (November 2017): 1552-1569.

Krieger, Joshua Lev, Fiona Murray, J. Scott Roberts, and Robert C. Green. "The Impact of Personal Genomics on Risk Perceptions and Medical Decision-Making." *Nature Biotechnology* 34, no. 9 (September 2016): 912–918.

Azoulay, Pierre, Jeffrey L. Furman, Joshua Lev Krieger, and Fiona Murray. "Retractions." *Review of Economics and Statistics* 97, no. 5 (December 2015): 1118–1136.

WORKING PAPERS

Krieger, Joshua Lev, Martin Watzinger, and Monika Schnitzer. "Standing on the Shoulders of Science." Harvard Business School Working Paper, No. 21-128, June 2021. **4th round revise and resubmit, *The Strategic Management Journal***

Krieger, Joshua Lev and Ramana Nanda. "Are Transformational Ideas Harder to Fund? Resource Allocation to R&D Projects at a Global Pharmaceutical Firm." Harvard Business School Working Paper, No. 23-014, August 2022.

Frankel, Alex, Joshua Lev Krieger, Danielle Li, and Dimitris Papanikolaou. "Evaluation and Learning in R&D Investment." Working paper, January 2023.

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4315940

Hammoudeh, Mosab, Joshua Krieger, and Jiajie Xu. "Dusting Off the Old Ones: Drug Licensing to Startups, Innovation Success and Efficiency." Working paper, December 2022.

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4281957

WORKS IN PROGRESS

Krieger, Joshua Lev, Kyle Myers and Oliver York. "Racing Towards the Sun: Learning and Herding in Solar Cell Development."

Krieger, Joshua Lev and Ramana Nanda. "Social Influence in Evaluating Innovation."

Dizon-Ross, Rebecca, Daniel Fehder, Yael Hochberg, Joshua Lev Krieger and Daniel Lee. "Accelerate Palestine: A Field Experiment in Entrepreneurship Training in the West Bank."

Krieger, Joshua Lev and Zakaria El Amrani El Idrissi. "Cloudy with a Chance of Blockbusters: R&D Consequences of Missed Product Forecasts."

Garfinkel, Jon, Mosab Hammoudeh, Joshua Lev Krieger, Xuelin Li and Richard Thakor. "Drug Development Shocks and Rival Bank Loans."

TEACHING MATERIALS

Cases and Teaching Notes:

Lerner, Josh and Joshua Lev Krieger. "In-Q-Tel: Innovation on a Mission." Harvard Business School Case 823-031 (August 2022) [23p].

Lerner, Josh and Joshua Lev Krieger. "In-Q-Tel: Innovation on a Mission." Harvard Business School Teaching Note 823-042 (August 2022) [20p].

Krieger, Joshua Lev, Abhishek Nagaraj, and James Barnett. "Tomorrow.io Goes to Space." Harvard Business School Case 822-005 (January 2022) [22p].

Krieger, Joshua Lev, Abhishek Nagaraj, and James Barnett. "Tomorrow.io Goes to Space." Harvard Business School Teaching Note 822-102 (March 2022) [19p].

Krieger, Joshua Lev, William R. Kerr, and Christian Godwin. "AppHarvest: Rebuilding the Appalachian Economy Through Agriculture." Harvard Business School Case 822-067 (November 2021) [25p].

Krieger, Joshua Lev, William R. Kerr, and Christian Godwin. "AppHarvest: Rebuilding the Appalachian Economy Through Agriculture." Harvard Business School Teaching Note 823-024 (August 2022) [21p].

Kluender, Raymond, Joshua Krieger, and Mitchell Weiss. "Biobot Analytics." Harvard Business School Case 821-045 (January 2021, Revised December 2021) [27p].

Kluender, Raymond, Joshua Krieger, and Mitchell Weiss. "Biobot Analytics." Harvard Business School Teaching Note 822-079 (March 2022) [17p].

"Catalys Pacific." Harvard Business School Case 821-035 (September 2020, Revised January 2021) [21p].

"Catalys Pacific." Harvard Business School Teaching Note 822-086 (January 2022 Revised March 2022) [12p].

Krieger, Joshua Lev, Christopher Stanton, and James Barnett. "Forecasting ClimaCell." Harvard Business School Case 820-044 (December 2019) [23p].

Krieger, Joshua Lev, Christopher Stanton, and James Barnett. "Forecasting ClimaCell." Harvard Business School Teaching Note 821-008 (December 2020, Revised March 2022) [15p].

Krieger, Joshua Lev, Tom Nicholas, and Matthew Preble. "The 'Wonder Drug' That Killed Babies." Harvard Business School Case 818-044 (November 2017) [28p].

Course and Module Notes:

Krieger, Joshua Lev, and James Matheson. "Introduction to Tough Tech Ventures." Course note.

Krieger, Joshua Lev, and James Matheson. "Launching Tough Tech Ventures." Module note.

Krieger, Joshua Lev, and James Matheson. "Commercialization Frameworks for Tough Tech Ventures." Module note.

Krieger, Joshua Lev, James Matheson, and Russ Wilcox. "Intellectual Property in Tough Tech." Topic note.

Krieger, Joshua Lev, Tom Clan, and James Matheson, and Russ Wilcox. "Customer Discovery and Validation in Tough Tech." Topic note.

Krieger, Joshua Lev, and James Matheson. "Dual-Use Technologies and Support Ecosystem." Topic note.

RESEARCH PRESENTATIONS

Oct 2023 Yale Innovation and Entrepreneurship Seminar
Sept 2023 Northern Finance Association, Toronto, Canada, Discussant
June 2023 Academy of Management Annual Meeting, “Defining Firm Rivalry, Similarity and Competitive Positioning”, Boston, MA
June 2023 DRUID, Portugal
May 2023 Bates White Life Science Symposium
May 2023 International Society for Pharmacoeconomics and Outcomes Research Annual Meeting
Nov 2023 Accounting Unit Seminar, Harvard Business School
Jul 2022 Economics of Strategy Workshop, NYU Stern
Jun 2022 International Conference on the Science of Science & Innovation, Washington D.C.
May 2022 UCLA Pharmaceutical Economics Seminar
Mar 2022 Novartis Institutes for Biomedical Research
Feb 2022 Workshop on Pharma & IP, HEC Lausanne / Columbia University Online Conference
Jan 2022 “Selecting Outlier Innovations,” ASSA Annual Meeting, Session Co-Organizer
May 2021 Bates White Healthcare Conference
Apr 2021 Stanford Law and the Biosciences Workshop
Feb 2021 Workshop on Field Experiments in Strategy, Innovation, and Entrepreneurship
Paper presenter at Duke, HBS, USCD, INSEAD online conference
Nov 2020 McGill Organizational Behavior Seminar
Sep. 2020 Haas School of Business, UC Berkeley PhD Innovation Seminar
Aug 2020 AIEA-NBER Conference on Innovation and Entrepreneurship, Discussant
Feb 2020 Utah Eccles School of Management
Jan 2020 ASSA Annual Meeting; San Diego
Aug 2019 AOM TIM Doctoral Research Development Workshop, Co-Organizer
May 2019 Kellogg Healthcare Conference
Mar 2019 BYU Utah Winter Strategy Conference, Park City Utah
Jan 2019 ASSA Annual Meeting; Atlanta, “Trajectories of Innovation: Evaluation and Direction in R&D Project Selection,” Presenter
Nov 2019 Georgia Tech, REER Conference; Atlanta, GA, Discussant
Jan 2018 “Trajectories of Innovation: Evaluation and Direction in R&D Project Selection”, ASSA Annual Meeting; Philadelphia, PA, Session Chair and Presenter
Dec 2017 NBER Entrepreneurship Winter Meeting
July 2017 NBER Summer Institute: Aging
July 2017 NBER Summer Institute: Innovation
June 2017 DRUID 2017, PDW on “Direction of Innovation & Science,” NYU Stern
May 2017 Munich Summer Institute, Max Plank Institute
Jan 2017 Strategy Department, UCLA Anderson School of Management
Jan 2017 Technology and Operations Management Unit, Harvard Business School
Jan 2017 Strategy and Entrepreneurship, Cox School of Business, SMU
Jan 2017 Strategy Unit, Harvard Business School
Jan 2017 Management Department, Wharton
Dec 2016 Entrepreneurial Management Unit, Harvard Business School
Dec 2016 Management Division, Columbia Business School
Nov 2016 Strategy and Entrepreneurship, UNC Kenan-Flagler Business School
Nov 2016 Georgia Tech, REER Conference; Atlanta, GA
Aug 2016 Academy of Management Annual Meeting; Anaheim, CA
Symposium on “Driving the Direction of Innovation,” Session Chair and Presenter
May 2016 Industry Studies Association Conference; Minneapolis, MN

Feb 2016 MIT Sloan Healthcare & Bioinnovations Conference (Poster); Cambridge, MA
Apr 2015 Consortium on Competitiveness and Cooperation (CCC); New York, NY
Mar 2014 American College of Medical Genetics and Genomics Annual Meeting (Poster);
Nashville, TN

OTHER TEACHING EXPERIENCE

2022, 2023 Instructor, Endeavor, HBS Executive Education
2019 – 2023 Instructor, Launching New Ventures, HBS Executive Education
2022, 2023 Instructor, Rock Summer Fellows, Workshops on Tough Tech
2023 Instructor, Harvard GRID Entrepreneurship Bootcamp, School of Engineering and Applied Sciences (SEAS)
2018 – 2021 Guest Lecturer/Instructor, Theoretical and Empirical Perspectives on Entrepreneurship, Harvard Business School
2020 Guest Instructor, Venture Capital and Private Equity, HBS 2nd year elective
2015, '18, '20 Guest Lecturer/Instructor, Ethics in Biomedical Research, Harvard-MIT Health Sciences and Technology Program
2016 Teaching Assistant, Entrepreneurial Strategy, MIT Sloan (Prof. Scott Stern)
2015 Teaching Assistant, Regional Entrepreneurship Acceleration Lab, MIT Sloan (Profs. Fiona Murray and Phil Budden)
2014 – 2015 Teaching Assistant, Competitive Strategy, Executive MBA Program, MIT Sloan (Profs. Pierre Azoulay and Scott Stern)
2013 Teaching Assistant, Advanced Strategic Management, MIT Sloan (Prof. Michael Cusumano)

PEER REVIEWER

American Economic Review
Administrative Sciences Quarterly
Econometrica
Health Economics
Industry and Innovation
Journal of the European Economic Association
Journal of Finance
Journal of Law, Economics and Organization
Journal of Public Economics
Management Science
Organization Science
Production and Operations Management
Quarterly Journal of Economics
RAND Journal of Economics

Research Policy
Review of Financial Studies
Review of Economics and Statistics
Review of Economics Studies
Strategy Science
Science Translational Medicine