

Anna P. Goldstein, Ph.D.

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EDUCATION

University of California, Berkeley, Ph.D. in Chemistry, Designated Emphasis: Nanoscale Science and Engineering	2014
University of North Carolina at Chapel Hill, M.S. in Chemistry	2009
University of North Carolina at Asheville, B.S. in Chemistry, <i>summa cum laude</i>	2007

RESEARCH EXPERIENCE

Senior Research Fellow, University of Massachusetts Amherst	2019-
Project Associate, Industrial Economics, Inc.	2018-
Postdoctoral Researcher, Carnegie Institution for Science and Stanford University	2017–2018
Postdoctoral Research Fellow, Belfer Center for Science and International Affairs, Harvard Kennedy School, Science Technology and Public Policy program, Energy Technology Innovation Policy research group	2015-2017
Independent Consultant, National Academies of Sciences, Engineering, and Medicine, Committee for the Evaluation of ARPA-E	2015–2016
Research Fellow, Project Drawdown	2015
Program Evaluation Specialist, Valley Venture Mentors (VVM)	2015

JOURNAL ARTICLES

(* = equal contribution)

- P. Azoulay; E. Fuchs; A. P. Goldstein; M. Kearney, “Funding Breakthrough Research: Promises and Challenges of the ‘ARPA Model’,” in: *Innovation Policy and the Economy*, 2019, 19, 69-96. <https://doi.org/10.1086/699933>
- A. P. Goldstein; V. Narayanamurti, “Simultaneous Pursuit of Discovery and Invention in the US Department of Energy,” *Research Policy*, 2018, 47, 1505. <https://doi.org/10.1016/j.respol.2018.05.005>
- G. Chan; A. P. Goldstein; A. Bin-Nun; L. Diaz Anadon; V. Narayanamurti, “Six Principles for Energy Innovation,” *Nature*, 2017, 552, 25. <https://doi.org/10.1038/d41586-017-07761-0>
- A. P. Goldstein; “Why Are We Waiting?: The Logic, Urgency, and Promise of Tackling Climate Change, by Nicolas Stern,” Book review, *Science and Public Policy*, 2017, 44, 880. <https://doi.org/10.1093/scipol/scx030>
- T. Pham*; A. P. Goldstein*; J. Lewicki; S. O. Kucheyev; C. Wang; T. P. Russell; M. A. Worsley; L. Woo; W. Mickelson; A. Zettl, “Nanoscale Structure and Superhydrophobicity of sp²-Bonded Boron Nitride Aerogels,” *Nanoscale*, 2015, 7, 10449. <https://doi.org/10.1039/C5NR01672J>
- A. P. Goldstein; W. Mickelson; A. Machness; G. Lee; M. A. Worsley; L. Woo; A. Zettl, “Simultaneous Sheet Cross-Linking and Deoxygenation in the Graphene Oxide Sol-Gel Transition,” *J. Phys. Chem. C*, 2014, 118, 28855. <https://doi.org/10.1021/jp5092027>

- A. P. Goldstein; S. C. Andrews; R. F. Berger; J. B. Neaton; P. Yang, "Zigzag Inversion Domain Boundaries in Indium Zinc Oxide-Based Nanowires: Structure and Formation," *ACS Nano*, 2013, 7, 10747. <https://doi.org/10.1021/nn403836d>
- M. Rousseas; A. P. Goldstein; W. Mickelson; M. A. Worsley; L. Woo; A. Zettl, "Synthesis of Highly Crystalline sp²-Bonded Boron Nitride Aerogels," *ACS Nano*, 2013, 7, 8540. <https://doi.org/10.1021/nn402452p>
- T. E. Knight; A. P. Goldstein; M. K. Brennaman; T. Cardolaccia; A. Pandya; J. M. DeSimone; T. J. Meyer, "Influence of the Fluid-to-Film Transition on Photophysical Properties of MLCT Excited States in a Polymerizable Dimethacrylate Fluid," *J. Phys. Chem. B*, 2011, 115, 64. <https://doi.org/10.1021/jp107077t>
- P. G. Hoertz; A. P. Goldstein; C. Donley; T. J. Meyer, "Using the Voids. Evidence for an Antenna Effect in Dye-Sensitized Mesoporous TiO₂ Thin Films," *J. Phys. Chem. B*, 2010, 114, 14772. <https://doi.org/10.1021/jp103867j>

WORKING PAPERS AND POLICY BRIEFS

- A. P. Goldstein; M. Kearney, "Know When to Fold 'Em: An Empirical Description of Risk Management in Public Research Funding," SSRN, 2018. <https://ssrn.com/abstract=3252548>
- A. P. Goldstein; M. Kearney, "Uncertainty and Individual Discretion in Allocating Research Funds," SSRN, 2017. <https://ssrn.com/abstract=3012169>
- A. P. Goldstein; P. Azoulay; J. Graff Zivin; V. Bulovic, "Promoting Energy Innovation with Lessons from Drug Development," Policy Proposal for the Hamilton Project, Brookings, 2017.
- A. P. Goldstein; M. Kearney, "The Impact of Active Program Management on Innovation at ARPA-E," Consulting report, National Academies of Sciences, Engineering, and Medicine, 2016.
- A. P. Goldstein, "Scientific, Inventive and Market Engagement Metrics of ARPA-E Awards," Consulting report, National Academies of Sciences, Engineering, and Medicine, 2016.

PATENT

- A. K. Zettl, M. Rousseas, A. P. Goldstein, W. Mickelson, M. A. Worsley, L. Woo, "Crystalline boron nitride aerogels," United States Patent No. US9611146

TEACHING EXPERIENCE

Lecturer at Boston University, Questrom School of Business Sustainable Energy Practicum	2018
Workshop Facilitator at UC Berkeley How to Lead Effectively: Skills for Managing Scientists	2017-2018
Visiting Instructor at Mount Holyoke College Solar Energy: Technology, Policy & Impact	2014
Graduate Student Instructor, UC Berkeley, Advanced Inorganic Chemistry and General Chemistry	2009-2011
Graduate Student Instructor, UNC Chapel Hill, Physical Chemistry I and II	2007-2009

MEETINGS AND PRESENTATIONS

Presenter, Association for Public Policy Analysis and Management (APPAM) Fall Research Conference, Washington, DC	Nov. 10, 2018
Participant, Council on Foreign Relations, New York, NY Workshop on Promoting Digital Innovations to Enable Clean Energy Systems	Feb. 22, 2018
Presenter, Center for International Environment & Resource Policy Fletcher School, Tufts University, Medford, MA	Sep. 25, 2017
Presenter, Consortium for Energy Policy Research, Harvard Kennedy School, Cambridge, MA	Sep. 18, 2017
Participant, Council on Foreign Relations, New York, NY Workshop on Harnessing International Cooperation to Advance Clean Energy Innovation	Mar. 29, 2017
Presenter, Precourt Institute for Energy, Stanford University, Stanford, CA	Feb. 23, 2017
Presenter, National Bureau of Economic Research (NBER) Productivity and Innovation Seminar, Cambridge, MA	Oct. 18, 2016
Discussant, Association for Public Policy Analysis and Management (APPAM) Fall Research Conference, Miami, FL	Nov. 12, 2015

LEADERSHIP ACTIVITIES

Member, Board of Directors, Pre-Scientist, Inc.	2018-
Co-Founder and Organizer, Letters to a Pre-Scientist	2011-2018
VP of Communities, Berkeley Energy and Resources Collaborative (BERC)	2013-2014
Founder, Science Leadership and Management (SLAM)	2012-2014
Co-Chair, Task Force for Graduate Student and Postdoctoral Professional Development, UC Berkeley	2013-2014
Member, Graduate Life Committee, UC Berkeley Department of Chemistry	2013
Web Editor, The Berkeley Science Review (BSR)	2010-2013
Organizer, Photovoltaic (PV) Idea Lab	2010-2012

STUDENT MENTORING

Trained and supervised students in independent research projects	
1. Neosha Narayanan (2018, high school student)	
2. Alen Amini (2016, MPP/MBA student)	
3. Kevin Chen (2013, high school student)	
4. Gloria Lee (2012, undergraduate)	
5. Ariella Machness (2012, undergraduate)	
Lead Mentor, Summer High-School Apprenticeship Research Program (SHARP)	2010-2012
Volunteer, Students for Environmental Energy Development (SEED)	2009-2012

RELEVANT COURSEWORK

Empirical Methods II (audit) Harvard Kennedy School	2016
Economics of Ideas, Innovation and Entrepreneurship (audit) MIT Sloan School of Management	2015
Energy Policy (audit) Harvard Kennedy School	2015
Creating Jobs through Better Government Policies for Innovation and Education Goldman School of Public Policy, UC Berkeley	2014
Public Leadership and Management Goldman School of Public Policy, UC Berkeley	2013

OTHER QUALIFICATIONS

Analytical tools: Stata, Python, MATLAB, SQL

Reviewer for MassCEC, US EPA