

## EDUCATION

- University of California, Berkeley** **August 2013 - Present**  
School of Information – Ph.D. Candidate in Information Management & Systems  
NSF Graduate Research Fellowship, Berkeley Distinguished Graduate Fellowship GPA: 4.0/4.0
- University of Texas at Austin** **May 2011**  
B.S. Biochemistry – Dean’s Scholars Honors Program  
Dean’s Honored Graduate (*Top 1% of graduating class*) GPA: 3.94 / 4.00 (*Highest honors*)  
Honors Thesis with Dr. Jonathan Sessler Lab: “Survey of receptor mediated anion transport”

## PROFESSIONAL & ACADEMIC EXPERIENCE

- Center for Technology, Society & Policy (CTSP)** **Sept. 2016 – Present**  
*Co-Director* Berkeley, CA
- Manage a multidisciplinary research and design center focusing on emergent social and policy issues arising from the development and adoption of technology.
  - Design and administer the annual Request for Proposals (RFP), coordinate guest speakers and plan events, collaborate across Berkeley with other centers and outside partners, fundraise for future years, and manage additional research activities within CTSP’s mission.
- UC Berkeley School of Information** **Aug. 2013 – May 2016**  
*Graduate Student Instructor (GSI)* Berkeley, CA
- *Jan. 2016 - May 2016:* Supported Prof. John Chuang with Information Technology Economics, Strategy, and Policy (Info 234).
  - *Jan. 2014 - Dec. 2014:* Assisted with development of and served as graduate student instructor for new course entitled "Legal, ethical, and policy considerations of data" for the I School's entirely online degree program, Master of Information and Data Science (MIDS) with Prof. Deirdre Mulligan.
- Science and Technology Policy Institute – Institute for Defense Analyses** **Aug. 2011 – July 2013**  
*Science Policy Fellow* Washington, DC
- Continuing Consultant* **Aug. 2013 – Present**
- Provided quantitative and qualitative research and analysis for primary sponsor [White House Office of Science & Technology Policy (OSTP)]; provided additional support to President’s Council of Advisors on Science & Technology (PCAST), National Science Foundation (NSF), National Science Board (NSB), and National Oceanic and Atmospheric Administration (NOAA)
  - Task experience included: Analysis of the U.S. civil Earth observing systems portfolio and development of a national strategy; policy development for a federated and extensible Federal biodiversity & ecosystem informatics data architecture; lifetime study and evaluation of NSF Experimental Program to Stimulate Competitive Research (EPSCoR) program; and studies on Federal laboratory governance structures and technology commercialization practices
  - Independent capstone research project on regional economic development using a multivariate cluster analysis including both input and output indicators to assess research capacity
- Center for American Progress – Science Progress Publication** **Jan. 2011 - Aug. ‘11**  
*Consultant (June – Aug. ‘11); Science Policy Intern (Jan. – May ‘11)* Washington, DC
- Provided research and writing for a series on U.S. competitiveness ("Rewiring the Federal Government for Competitiveness: A New Cabinet Department for the 21st Century." In American Progress, 2012.)
  - Wrote selected columns, collaborated on reports, and edited weekly publication material on U.S. innovation policy, science legislation, and bioethics

# Elaine Marie Sedenberg

Office of Technology Commercialization, UT Austin

June 2009 - May '10, Sept. 2010 - Dec. '10

Licensing Intern

Austin, TX

- Met with inventors, managed patent lifecycles, and marketed small molecule and medical device technologies
- Participated in all stages of portfolio development from disclosure to patent licensing agreements

Tisdale Fellowship – Technology CEO Council

June - August 2010

Public Policy Intern

Washington, DC

- Worked on policy issues relevant to the CEOs of nine multinational corporations (e.g. Dell, Intel, IBM, Applied Materials) including cybersecurity, global competitiveness, and deficit reduction discussions

## RESEARCH GRANTS AWARDED

**Berkeley Center for Law and Technology (BCLT) and Microsoft** – “Open Public Health Data as a Model for Cybersecurity” 2014-2016 Co-PI with Deirdre Mulligan

**Center for Long-Term Cybersecurity (CLTC)** – [1] “Unpacking Cybersecurity ‘Information Sharing’ for an Uncertain Future” 2016 Co-PI with Jim Dempsey. [2] “Security and Privacy of Biosensing at Scale” 2016 with team under John Chuang

## HONORS & AWARDS

**Center for Technology, Society, and Policy (CTSP) & Center for Long-Term Cybersecurity (CLTC)**– Fellow (2015-2016)

**RSA Security Scholar** – Student presenter & scholarship to attend RSA Conference in San Francisco, 2016

**NextGen@ICANN 51** – Fellowship to attend and present at ICANN51 in Los Angeles, CA, 2014

**United States Senate Youth Alumni Association** – Graduate Fellowship Award, 2014

**UT LBJ Strauss Center for International Security & Law** – Next Generation Scholar, 2010-2011

**UT Undergraduate Research Fellowship** – For independent thesis, 2009-10

## SELECTED PUBLICATIONS

Sedenberg, E., Chuang, J., and D. Mulligan. “Designing Commercial Therapeutic Robots for Privacy Preserving Systems and Ethical Research Practices Within the Home.” *International Journal of Social Robotics* (2016).

Sedenberg, Elaine M. and Deirdre K. Mulligan. “Public Health as a model for cybersecurity information sharing” *Berkeley Technology Law Journal* 30:3 (2016) 1687-1740

Schneider, F., Sedenberg, E., Mulligan, D. “Public Cybersecurity and Rationalizing Information Sharing, Opinion Piece for the International Risk Governance Center (IRGC).” Lausanne: IRGC. (2016)

Center for Long-Term Cybersecurity (CLTC). “Cybersecurity Futures 2020.” Berkeley, CA. 2016. (**Contributions acknowledged page 5**)

Zuckerman, B., R. Parker, T. Jones, B. Rieksts, I. Simon, G. Watson III, E. Sedenberg, S. Holloman, R. Whelan, L. Pratt, C. Clavin, A. Azari, M. Ambrose, J. Brooks, and P. Rambow. “Evaluation of the National Science Foundation’s Experimental Program to Stimulate Competitive Research (EPSCoR): Final Report.” Washington, D.C.: Science and Technology Policy Institute. IDA Paper P-5221, December 2014.

National Science and Technology Council. “National Plan for Civil Earth Observations.” Washington, D.C.: Executive Office of the United States, 2014. (**Contributions acknowledged page 4**)

Howieson, S. V., C. E. Sedenberg, B. Sergi, and S. Shipp. “Department of Energy Technology Maturation Programs.” Washington, D.C.: Science and Technology Policy Institute, 2012. (2013)

Howieson, S. V., C. Clavin, and E. Sedenberg. “Federal Security Laboratory Governance Panels: Observations and Recommendations.” Washington, D.C.: Science and Technology Policy Institute, 2012. (2013)

J. Gallo, K. Kulinowski, R. Parker, and E. Sedenberg. “Report to the President and Congress on the Fourth Assessment of the National Nanotechnology Initiative”. Washington, DC: President's Council of Advisors on Science and Technology (PCAST), 2012.

National Science Board. “Research and Development, Innovation, and the Science and Engineering Workforce: A Companion to the Science and Engineering Indicators 2012.” National Science Foundation. Arlington, VA, 2012. (**Contributed research & writing**)

# Elaine Marie Sedenberg

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Sessler, J., Karnes, E., **Sedenberg, E.** "Porphyrin and Expanded Porphyrins as Receptors." *Supramolecular Chemistry: From Molecules to Nanomaterials*. John Wiley & Sons, Ltd., 2012.

Gale, P. A., C. Tong, C. Haynes, O. Adensun, D. Gross, E. Karnas, **E. Sedenberg**, R. Quesada, and J. Sessler. "Octafluorocalix[4]pyrrole: A Chloride/Bicarbonate Antiport Agent." *Journal of the American Chemical Society* 132.10 (2010): 3240-3241

**PRESENTATIONS** – Please reference "[sedenberg.com/presentations](http://sedenberg.com/presentations)" for updated list including talk materials and videos.

## SERVICE & OTHER ACTIVITIES

**Journal of Science Policy and Governance (JSPG)** – *Open Access student policy journal*

- *Editor-in-Chief 2014 – 2016; Governing Board 2016 – Present*

**Friar Society** – *2010-Present, UT's Oldest Honors Society*

**United States Senate Youth Program Alumni Association** – *2006 - Present*

- *Board of Directors – Secretary/Western Regional Director 2012 – 2016; VP 2016 – Present*

**Junior League of Washington and San Francisco** – *Member and Volunteer 2012- Present*

## PROFESSIONAL SKILLS

Experience with programming languages and scripts for macros (Python; Excel and iMacros; basic Unix), LaTeX, qualitative analytics (NVivo; MAXQDA), structured/semi-structured interview methods, survey methodology (Qualtrics), statistical analysis (R), network analyses, reference management (Endnote, Mendeley, Zotero, Evernote), archival research (National Archives), and bibliometric databases.