

AMIT SHAVIT, PhD

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EDUCATION

Ph.D. in Chemical and Biomolecular Engineering *University of Pennsylvania* (Philadelphia, PA) June 2015

B.S. in Chemical Engineering *University of Massachusetts Amherst* (Amherst, MA) May 2010

- Graduated *summa cum laude* in Chemical Engineering with a minor in Chemistry • **GPA: 3.81**

RELEVANT EXPERIENCE

Thomson Reuters – *Technology Associate*, New York, NY August 2015 – Present

First Rotation in Legal: Redefining Attorney Workflow Using Big Data Technologies

- Researched cutting-edge machine learning algorithms for classification and association of legal documents (e.g., briefs, trial court docs) for integration into a new product in TR Legal
- Developed an architectural understanding of existing technologies within TR Legal. Found ways to leverage such technologies for this new product

Independent Collaboration with R&D NY: Social Network Research and Analysis

- Researched and developed algorithms to analyze the social network “StockTwits”
- Utilized big data technologies such as Hive and Python Pandas to facilitate analysis of massive amounts of data
- Submitted a manuscript detailing the results of this study to “WWW 2016”—a first tier conference in this field

University of Pennsylvania – *PhD Candidate*, Philadelphia, PA September 2010 – June 2015

Dissertation Title: *Nanomechanics of Glassy Polymers Under Confinement* • Advisor: Robert Riggelman

- Developed algorithms and code to analyze confined glassy polymers using high performance computing technologies (e.g., C & C++, parallelized code, supercomputers)
- Studied glass-forming polymers in free-standing films, in supported films, and in pillar geometries
- Published five first-author papers in reputable journals; presented research in 17 local and national presentations

Academia Sinica – *National Science Foundation EAPSI Fellow*, Taipei, Taiwan June 2013 – August 2013

- Investigated slit confinement of polymer chains (e.g., DNA) using Brownian Dynamics simulations
- Formed a lasting collaboration and presented results in several presentations and reports to NSF

University of Colorado Boulder – *NSF Research Fellow*, Chem. Eng. Dept., Boulder, CO June 2009 – August 2009

- Researched the wettability and anchoring of nematic liquid crystals (LCs) at the solid/LC interface using a two-component mixture of octadecyltriethoxysilane (C18) and ethyltriethoxysilane (C2)
- Placed third in the summer poster competition and awarded to present in AIChE conference in 2009; published results in Noonan, P.S., Shavit, A., Acharya, B.R., Schwartz, D.K. *App. Mat. & Int.* (2011)

University of Massachusetts Amherst – *Research Assistant & Honors Thesis*, Amherst, MA Sept. 2007 – May 2010

- Proposed and developed a multi-parameter study on *Taxus cuspidata* cell cultures
- Successfully optimized and reduced the time of a *Taxus* staining protocol by 75 percent

SELECTED AWARDS

Awards: Audience Favorite Talk (*U. Penn 2014*) • Best Poster (*U. Penn 2013*) • NSF EAPSI Fellow (*NSF 2013*)

Scholarships: Chris Gagne (*U. Mass 2008*) • Honors Grant (*U. Mass 2008*) • Engineering Alumni (*U. Mass 2007*)

LEADERSHIP ACTIVITIES

Graduate Student Symposium – University of Pennsylvania 2014

- Co-organized 2014 symposium; invited attendees; developed program; created symposium website

Excellence in Teaching Award – University of Pennsylvania Center of Teaching and Learning Sept. 2012 – Dec. 2012

- Developed teaching philosophy; discussed methods for engaging students; received feedback on teaching style

Mentor in Summer Academy in Applied Science and Technology – Univ. of Pennsylvania June 2012 – August 2012

- Mentored six high school students to develop research projects meant to maximize *Taxol* production

V.P. of International Society of Pharmaceutical Engineers – University of Massachusetts Amherst 2008

- Coordinated events, informed, motivated and recruited new students to the ISPE organization

SKILLS

C & C++, Python, Linux, BASH, Hive, HTML, CSS, JavaScript, Interactive Data Visualization (d3.js), MATLAB, Parallel Computing, LaTeX, Version Control (git), Java (some) and MS Office Suite