AMIT SHAVIT, PHD

129 East 47th St. • New York, NY 10017 • (781) 696-8282 • amit.shavit@thomsonreuters.com

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: Project X – 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 Project X

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 Riggleman

- 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., Schwratz, 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), and MS Office Suite