

# ABRAHAM (AVI) E. WOLF

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<b>EDUCATION</b>	<b>PRINCETON UNIVERSITY</b> Ph.D. Candidate in Chemical and Biological Engineering, Sep 2015 – Present M.A. in Chemical and Biological Engineering, April 2017 • Tissue Morphodynamics Laboratory, Celeste Nelson Group	<b>Princeton, NJ</b>
	<b>UNIVERSITY OF MICHIGAN</b> B.S.E. in Chemical Engineering, April 2012 • Graduated <i>summa cum laude</i>	<b>Ann Arbor, MI</b>
<b>EXPERIENCE</b>	<b>INTEL CORPORATION</b> Nov 2013-Apr 2015 <b>Chemical Process Engineer, Technology Manufacturing Group</b> • Led effort to qualify, perfect and certify operation of 6 new machines that were used in the production line of the next generation of Intel's microprocessor chips • Advanced into <i>Machine Ownership</i> role, generating the 2 best-performing machinery in the fleet, with demonstrated availability sustained at above 90% • Independently led team of technicians to manage entire fleet of machinery for 6 months • Recognized by manager and peers as rising engineering expert, developing strong technical and leadership skills through Intel's internal systems	<b>Chandler, AZ</b>
May-Aug 2012	<b>GENERAL MILLS, INC.</b> <b>Tauber Institute of Global Operations Fellow &amp; Intern</b> • Performed comprehensive customer supply chain study, developing strategic tool to increase cross-functional alignment and end-to-end optimization • Prepared implementation plan to remodel GMI system to generate a net present value of \$3.5MM, 25% rate of return, 26% fiber reduction and 3.8MM fewer containers yearly • Identified \$2.8MM/year savings, while improving customer satisfaction & sustainability	<b>Minneapolis, MN</b>
Jun-Aug 2011	<b>BRISTOL-MYERS SQUIBB</b> <b>Drug Product Scientist and Developer Intern</b> • Developed a correlation for scale-up effects on the efficacy of a phase III cancer drug, creating a predictive tool to drive drugs from development stages to mass manufacture • Researched the tableting of active drug ingredients and developed a method to predict tablet erosion, resulting in a great cost reduction in testing during future production • Published manuscripts 14-590 and 16-334 in peer-reviewed <i>JPharmSci</i> • Presented alone in 2012 and primed two other posters with developed data at the American Association for Pharmaceutical Scientists 2011 & 2014 expositions	<b>New Brunswick, NJ</b>
Apr-Jun 2011	<b>TECHNICAL UNIVERSITY OF BERLIN</b> <b>Research Investigator and Student, Institute of Energy</b> • Researched the process of converting wood into liquid fuels, and designed reactor to convert saw dust into 70 m <sup>3</sup> /hr Hydrogen gas with zero net energy input • Immersed myself in a German culture course and learned basic German language	<b>Berlin, Germany</b>
Sep 2009-2011	<b>CELL ADHESION AND TARGETED DRUG DELIVERY LABORATORY</b> <b>Research Assistant, Dept. of Chemical Engineering</b> • Independently researched the effect of new polymers in drug carriers and altered fabrication parameters to increase treatment efficiency and therefore lower side effects • Presented research at 2009-2010 Year End Symposium, receiving merit award	<b>Ann Arbor, MI</b>
<b>LEADERSHIP</b>	<b>MOISHE HOUSE INTERNATIONAL</b> Jun 2013-May 2015 <b>Founding Member and Finance Officer</b> • Established Moishe House Phoenix with 3 other leaders, building a strong, eclectic and innovative young Jewish professional community from the ground up • Designed 8-12 programs per month to engage and connect Jewish young adults, reaching 5,992 program attendees in 247 programs through the first 2 years of operation • Managed growth and all local finances of this entrepreneurial-style venture, including initiating a Programming Board of 8 to multiply impact and foster new community leaders • Serving as the first Chairman of the international Moishe House Alumni Board	<b>Scottsdale, AZ</b>

Jan '10-Apr '12	<b>ENGINEERING GLOBAL LEADERSHIP HONORS PROGRAM</b> <b>2012: Vice President of Development; 2011: Leadership Chair</b>	<b>Ann Arbor, MI</b>
	<ul style="list-style-type: none"> <li>• Attained a dynamic combination of business acumen, a core of cultural courses, and valuable leadership experience as a member in the EGL honors society</li> <li>• Planned, raised \$10,000 of funding, and oversaw the 8-session, 2-hour weekly, interactive Topics in Leadership course, resulting in 100% satisfaction rating by students</li> </ul>	
Jan-Dec 2009	<b>GLOBAL INTERCULTURAL EXPERIENCE</b> <b>Student Scholar; Internship Immersion Jul &amp; Aug 2009</b>	<b>Polokwane &amp; Pretoria, South Africa</b>
	<ul style="list-style-type: none"> <li>• Enhanced understanding of other cultures and the global interactions through participation in a yearlong course and a 4-week homestay in South African towns</li> <li>• Presented solutions for fatal road accidents (&gt;10,000/year) to government officials</li> </ul>	
<b>PRESENTATION &amp; PUBLICATIONS</b>	<ul style="list-style-type: none"> <li>• Piotrowski-Daspit A.S., Nerger B.A., <b>Wolf A.E.</b>, Sundaresan S., &amp; Nelson C.M. (2017) Dynamics of tissue-induced alignment of fibrous extracellular matrix. <i>Biophys. J.</i>, 113: 702-713. doi:10.1016/j.bpj.2017.06.046 including journal issue cover art</li> <li>• Narang AS, Breckenridge L, Guo H, Wang J, <b>Wolf A</b>, Desai D, Varia S, Badawy, S. (2017) Assessment of Tablet Surface Hardness by Laser Ablation and Its Correlation With the Erosion Tendency of Core Tablets. <i>JPharmSci.</i> 106(1):200-207. doi:10.1016/j.xphs.2016.08.008.</li> <li>• Narang, AS, Sheverev, V, Stepaniuk, V, Badawy, S, Stevens, T, Macias, K, <b>Wolf, A</b>, Pandey, P, Bindra, D &amp; Varia, S. (2015) Real-time Assessment of Granule Densification in High Shear Wet Granulation and Application to Scale-up of a Placebo and a Brivanib Alaninate Formulation. <i>JPharmSci.</i> 104(3):1019-34. doi:10.1002/jps.24233</li> <li>• <b>Wolf, A</b>, Badawy, S, Pandey, P, Narang, A (2012, Oct). <i>Granule consolidation kinetics during the scale-up of high shear wet granulation</i>. Poster presented at the American Association for Pharmaceutical Scientists Annual Meeting and Exposition, Chicago, IL.</li> <li>• <b>Wolf, A</b>, Barzakova, E (2012, Sep). <i>Aligning packaging logistics for General Mills, Inc.</i> Oral presentation at <i>Spotlight!</i> Competition, Tauber Institute for Global Ops, Ann Arbor, MI.</li> </ul>	
<b>FELLOWSHIPS</b>	<ul style="list-style-type: none"> <li>• <b>Gordon Wu Fellow</b> (Sep 2015): the highest honor bestowed upon an incoming graduate student at the Princeton University Graduate School</li> <li>• <b>VBM Start Me Up! Fellow</b> (May 2014-May 2015): Selected through a competitive process to participate in leadership development and innovation incubator that combines training and entrepreneurship to advance local community engagement initiatives; developing app venture through this incubator to connect community members over holiday meals</li> <li>• <b>Tauber Global Operations Fellow</b> (Sep 2011-Aug 2012): Selected in this fellowship as a capstone to the honors program of Michigan Engineering; studied global operations, manufacturing principles, and a core series in Michigan's Ross Business School; collaborated on an interdisciplinary team with MBA students in high-impact internship</li> </ul>	
<b>AWARDS</b>	<ul style="list-style-type: none"> <li>• <b>Ramaz Upper School 2017 Graduation Speaker</b> "Inflection Points" <a href="http://youtu.be/tZLS7rzDI4">youtu.be/tZLS7rzDI4</a></li> <li>• <b>The People's Choice Award, 2011 Michigan Design Symposium</b> (Apr 2012) Voted by Michigan students to receive recognition of best senior design project</li> <li>• <b>Engineering Student Representative</b> (Apr 2012) Honored as single representative of Engineering College on graduation stage</li> <li>• <b>Landes Prize for Technical Writing Expertise</b> (Jan 2012) Recognized for demonstrating exceptional technical writing ability in engineering</li> <li>• <b>Henry Ford II Prize</b> (Dec 2011) for demonstrated academic excellence</li> <li>• <b>Outstanding Presentation Award, Michigan Undergraduate 2009-2010 Year End Symposium</b> (Apr 2010) for presentation on reshaping drug carriers to improve efficacy</li> </ul>	
<b>HONORS</b>	<ul style="list-style-type: none"> <li>• <b>Phi Kappa Phi Honors Society; James B. Angell Scholar</b> for academic distinction</li> <li>• <b>Dean's List</b> in 6 consecutive terms, <b>University Honors</b> in 5 consecutive terms</li> <li>• <b>Tau Beta Pi Engineering &amp; Omega Chi Epsilon</b> Chemical Engineering Honors Societies</li> </ul>	
<b>ADDITIONAL</b>	<ul style="list-style-type: none"> <li>• <b>JNFuture, Arizona Founding Member &amp; Recruitment Chair (Aug 2013-May 2015); Institute Leadership Mission 2015 Fellow; ongoing guest speaker:</b> Founded JNFuture in an area where Jewish National Fund (JNF) had little interaction with young adults; planned a launch event with 150 attendees, raising over \$4,000 and launching a gateway for the next generation of JNF; within 6 months, secured &gt;65 members, contributing &gt;\$12,000 annually</li> <li>• <b>ALEH Home for Severely Disabled Children (Aug 2007-Jun 2008):</b> Assisted one child with severe physical &amp; cognitive disabilities; coordinated events to playfully educate group of 6</li> <li>• <b>Camp Color War General:</b> Elected 1 of 4 to lead 800+ in camp-wide 3-day competition</li> <li>• <b>Languages:</b> native English; conversational Hebrew &amp; Spanish; basic German &amp; N. Sotho</li> <li>• <b>Other interests:</b> mentoring, tennis, world travel, and playing the drums</li> </ul>	