

February 4, 2018

# John L. Waczak

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CONTACT INFO	E-mail: waczakj@oregonstate.edu LinkedIn: <a href="http://www.linkedin.com/in/john-waczak/">www.linkedin.com/in/john-waczak/</a>	Phone: (503) 330-1280
INTERESTS	Computational Physics, Applied Mathematics, Spectroscopy	
EDUCATION	<b>Oregon State University</b> , Corvallis, OR. Bachelor of Science in Physics and Mathematics	September 2015 – present (GPA 3.90/4.0)
TECHNICAL SKILLS	<b>Programming and Operating Systems:</b> Python, C++, C#, Mathematica, L <sup>A</sup> T <sub>E</sub> X, git, Linux, Windows, MS Word, MS Excel, Numpy, Matplotlib, SQLite <b>Electronics:</b> Arduino, Raspberry Pi, National Instruments, Soldering	
EXPERIENCE	<b>Roundy Research Group</b> , Oregon State University <i>Undergraduate Researcher</i> I am working with Dr. Roundy to develop and test computational simulations which evaluate a physical model for the locomotion of the cellular motor protein Dynein. My duties include editing simulation code (C++), writing scripts to analyze and visualize large data sets (python), exploring the simulation space to find the best set of parameters to produce <i>physical</i> behavior, and presenting my findings at weekly group meetings. <a href="https://github.com/john-waczak/dynein_walk">github.com/john-waczak/dynein_walk</a>	January 2017 – Present
	<b>Cooper Environmental Services</b> , Beaverton, OR <i>Intern</i> I developed a program in c# to enable the production team to test input/output boards before they are put in instruments. This involved writing code to send and read voltages as well as creating a graphical user interface via Microsoft Visual Studio. I designed and implemented controller logic (using a PID loop) for controlling a vacuum pump. Using Modbus serial communications protocol, I created code to make data accessible locally with a Modbus slave device.	March 2015 – December 2017
	<b>Physics 201 TA</b> , Oregon State University I am a teaching assistant for the Physics 21x and 20x series (with and without calculus). This involves teaching multiple sections of the lab, grading weekly assignments, holding office hours, and proctoring examinations.	September 2017 - Present
	<b>Physics 199 TA</b> , Oregon State University I was one of two undergraduate teaching assistants for the introductory class Physics 199, a student organized "intro to the physics major" class. As a TA I organized lab tours and guest speakers as well as a panel of upperclassmen to talk to students about the physics track at OSU.	January 2017 – March 2017
ACTIVITIES	<b>Lambda Chi Alpha (ΛΧΑ)</b> Vice President I am the current Vice President of the Alpha Lambda chapter of Lambda Chi Alpha Fraternity. We are a 140 man organization devoted to building leaders and serving our community. My duties as VP include organizing weekly brotherhood events, presenting each week during our chapter meetings, talking with Alumni, and administering various executive committee responsibilities. <b>Society of Physics Students</b> Member, Mentor As a mentor, I am paired with a new undergraduate physics major whom I help acclimate to university classes (expectations, resources, class suggestions, etc...) <b>Sigma Pi Sigma (ΣΠΣ)</b> National Physcis Honor Society member <b>Community Outreach Inc.</b> Corvallis, OR - Volunteer	September 2015 to Present September 2015 to present June 2017 to present September 2015 to present
AWARDS	<b>Lambda Chi Alpha - Alpha Lambda Chapter Freshmen of the Year</b> Awarded for grades, involvement, and overall chapter vote. <b>Oregon State honor roll</b> Awarded for achieving above a 3.5 GPA and being enrolled in a minimum of 12 credit hours per term.	June 2016 2015-present