

Kelly Waldvogel

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Permanent Address

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Campus Address

301 College Ave
Ithaca NY 14850

EDUCATION

2016-Current	Cornell University B.S. Mechanical Engineering Minor: Astronomy GPA: 3.06/4.00 Expected Graduation: May 2020	<i>Ithaca, NY</i>
2012-2016	Libertyville High School GPA: 3.83/4.00 unweighted, 4.41/5.00 weighted	<i>Libertyville, IL</i>

EXPERIENCE

2018-Current	Undergraduate Research Assistant <i>Cornell University Astronomy Department</i> Developing algorithms and procedures for the calibration of the Mastcam-Z camera on the Mars 2020 rover.
2016-2018	Undergraduate Research Assistant <i>Cornell University Astronomy Department</i> Implemented mechanical engineering skills such as thermodynamic analysis, computer-aided design and rapid prototyping to develop instrumentation operating at cryogenic temperatures for astronomical research.
Summer 2017	Research Experience for Undergraduates <i>Cornell Center for Astrophysics</i> Awarded an NSF grant to continue and expand my undergraduate research.
2014-2016	Math Tutor and Office Manager <i>Kumon of Mundelein</i> Managed over 800 student folders and tutored children aged 5-18.

LEADERSHIP

2017-Current	Peer Advisor and Co-Chair <i>Cornell Engineering Advising</i> Serving as a mentor for 25 first-year engineers alongside a faculty advisor. Elected Co-Chair of Executive Board.
2018-Current	Engineering Ambassador <i>Cornell Engineering Advising</i> Giving tours to prospective engineering students and providing insight as a current student.
2018-Current	Assistant VP Intellectual Development <i>Alpha Chi Omega – Zeta Phi</i> Assisting chapter members achieve their academic goals through peer mentoring, the facilitation of library hours, and resume workshops.
Summer 2017	Workshop Leader <i>Cornell University Astronomy Department</i> Led a one-day rocket design workshop for high school students.

RELEVANT COURSEWORK

- Mechanical Synthesis (Product design and manufacturing)
- Statics, Mechanics, and Dynamics of Solids
- Thermodynamics
- Computer Science (Matlab, Python)

SKILLS AND ACCOMPLISHMENTS

- Presented a poster paper describing my undergraduate research at the 231st American Astronomical Society meeting, 8-12 January 2018, Washington DC
- Machine shop trained, including mill and lathe experience
- Proficient in Solidworks and Autodesk Fusion 360