

## Shelley Kwok, Research Associate

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Synapse Energy Economics | 485 Massachusetts Avenue, Suite 2 | Cambridge, MA 02139 | 617-453-7046  
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### PROFESSIONAL EXPERIENCE

**Synapse Energy Economics Inc.**, Cambridge, MA. *Research Associate*, August 2019 – Present

Conducts research and provides consulting on energy sector issues.

**Tufts Department of Mechanical Engineering**, Medford, MA. *Energy Research Fellow*,  
September 2018 - July 2019

- Utilized the SWITCH capacity expansion model to create optimized power systems projections.
- Wrote Python code to manipulate data and create data visualizations.
- Incorporated information from Google Project Sunroof to quantify the effects of national rooftop PV installations on the electrical grid.

**Integral Group**, Oakland, CA. *Intern*, June 2018 – August 2018

- Collaborated with coworkers to design sustainable HVAC systems for Net-Zero Energy and LEED-certified buildings and performed engineering calculations to support building designs.
- Utilized EnergyPlus and OpenStudio to create energy models and provided recommendations for implementing energy efficiency measures.
- Modeled HVAC systems using Revit.

**Tufts Bray Lab**, Medford, MA. *Fabrication Assistant*, June 2017 – July 2019

- Taught machining skills to the Tufts community and helped with student fabrication projects.
- Improved lab functionality using creative prototyping and machining.

**Renewable Energy and Applied Photonics Lab**, Medford, MA. *Research Assistant*.  
February 2017 – May 2017

- Refurbished thermal evaporators to be used for thin film plating on wafers.

### EDUCATION

**Tufts University**, Medford, MA  
Bachelor of Science, Mechanical Engineering, 2019.

### SKILLS

*Computer Software*: Matlab, R, Python, C++, Solidworks, Revit, Bluebeam

*Resume dated June 2019*