

**Danielle Goldberg, Research Associate**

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**PROFESSIONAL EXPERIENCE**

**Synapse Energy Economics Inc.**, Cambridge, MA. *Research Associate*, February 2017 – Present

- Conducts research and provides consulting on energy sector issues, with a focus on data, programs, policies, and technologies related to energy efficiency, renewables, and electricity generation.
- Evaluates and develops cost-benefit analyses for energy efficiency programs and technologies.
- Assists with the preparation of expert testimony related to various energy-sector topics

**Helping Overcome Obstacles Peru**, Arequipa, Peru. *School Coordinator, English Teacher*, May 2016 – July 2016

- Managed daily operation of the school and organized school functions, including assemblies and field trips.
- Acted as liaison between office staff, volunteers, and parents, communicating in both Spanish and English.
- Developed and led custom lesson plans to teach English to children ages 3-6.

**Allen Medical Systems**, Acton, MA. *New Product Development Co-op*, January – June 2015

- Designed lifecycle tests for arm traction device adhering to medical standards.
- Worked with pneumatic and electromechanical equipment.
- Developed extensive test documentation detailing calculations and procedures for load profiles and estimated lifetime usage.
- Created parts, drawings, and assemblies for design prototypes.

**Bose Corporation**, Framingham, MA. *Design Compliance Engineering Mechanical Test Co-op*, January – June 2014

- Performed design validation testing on audio and visual products.
- Conducted environmental and dynamic testing, such as thermal testing, transportation testing, drop testing, and surface damage testing.

**Amphenol Alden Products**, Brockton, MA, *Mechanical Engineering Co-op*, January – June 2013

- Completed extensive formal training in the fundamentals of SolidWorks for 2D and 3D modeling followed by application of software.
- Performed tolerance analyses and proposed changes based on the results.

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- Assessed severity of micro-cracks in electrical connectors using advanced lab equipment.

## EDUCATION

**Northeastern University**, Boston, MA

Bachelor of Science in Mechanical Engineering, 2016. *Cum Laude*.

## PUBLICATIONS

Malone, E., T. Woolf, D. Goldberg. 2018. *Updating the Energy Efficiency Cost-Effectiveness Framework in Minnesota: Application of the National Standard Practice Manual to Minnesota*. Conservation Applied Research and Development (CARD) Report. Prepared by Synapse Energy Economics for Minnesota Department of Commerce, Division of Energy Resources.

Fisher, J., M. Whited, T. Woolf, D. Goldberg. 2018. *Utility Investments for Market Transformation: How Utilities Can Help Achieve Energy Policy Goals*. Prepared by Synapse Energy Economics for Energy Foundation.

A. Hopkins, PhD, K. Takahashi, D. Goldberg. 2018. *Strategic Electrification Webinar*. Synapse Energy Economics.

D. Goldberg, E. Malone, J. Kallay, K. Takahashi. 2018. *Blog post: Switch on the Savings: A Heat Pump Cost-Effectiveness Study*. Synapse Energy Economics.

D. Goldberg, J. Kallay. 2017. *Blog post: Energy Efficiency Programs Plan for Post LED Success*. Synapse Energy Economics.

## TESTIMONY ASSISTANCE

**Illinois Commerce Commission (Docket No. 18-0211)**: Direct Testimony of Max Chang regarding Ameren Illinois Company's voltage optimization plan and the importance of prioritizing low-income communities. On behalf of the People of the State of Illinois, represented by the Office of the Illinois Attorney General. March 7, 2018.

**Commonwealth of Massachusetts Appellate Tax Board (Docket No. C331142)**: Expert report by Max Chang on the process of steam generation and distribution under the Commonwealth of Massachusetts' definition for manufacturing. On behalf of the City of Boston. January 11, 2018.

*Resume dated November 2018*