

Abigail Ondeck

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Education:

University of Texas, Austin, TX
Ph.D. in Chemical Engineering May 2016
GPA: 3.70/4.0

Carnegie Mellon University, Pittsburgh, PA
Bachelor of Science in Chemical Engineering May 2012
Double Major in Biomedical Engineering
GPA: 3.70/4.0 CIT GPA: 3.70/4.0

Experience:

UNIVERSITY OF TEXAS – AUSTIN
Research, January 2014 – Present

CARNEGIE MELLON UNIVERSITY
Research, September 2008 – May 2012
Synthesis and characterization of nanoparticles and composite catalysts to clean energy production

Presentations:

- A. Ondeck, Meeting of the Minds Poster Presentation, May 2012, Pittsburgh, Pennsylvania.
- A. Ondeck, Semiconductor Research Corporation Undergraduate Research Opportunity Poster Presentation, September 2011, Austin, Texas.
- A. Ondeck, Meeting of the Minds Poster Presentation, May 2011, Pittsburgh, Pennsylvania.
- A. Ondeck, Meeting of the Minds Poster Presentation, May 2010, Pittsburgh, Pennsylvania.
- N. Shukla, J. B. Miller, E. Coletta, A.D. Ondeck, V. Pushkarev and A.J. Gellman, American Chemical Society, August 2010, Boston.
- A. Ondeck, Meeting of the Minds Poster Presentation, May 2009, Pittsburgh, Pennsylvania.

Publications:

- N. Shukla, J.B. Miller, E. Coletta, A.D. Ondeck, V. Pushkarev and A.J. Gellman, “Synthesis of Ni Nanorods with Porous Silica Coatings”, *Catalysis Letters*.
- N. Shukla, J.B. Miller, A. Ondeck, J.C. Lee, “NiFe₂O₄@SiO₂ Nanoparticles Stabilized by Porous Silica Shells”, *Catalysis Letters*.
- N. Shukla, M.M. Nigra, A. Ondeck, “One-step synthesis process for alloy ternary quantum dots” (under preparation).

Research Fellowships:

- UT IGERT: Sustainable Grid Integration of Distributed and Renewable Resources – Spring 2013
- Semiconductor Research Opportunities-Undergraduate Research Office (SRC-URO) Fellowship – Spring 2010/Fall 2010/Spring 2011
- Summer Undergraduate Research Fellowship (SURF) – Summer 2009/Summer 2010
- Intel First Year Research Experience (IFYRE) – Fall 2008/Spring 2009

Awards:

- 2012 Geoffrey D. Parfitt Award – For excellence in research in the field of colloids, polymers, and surfaces, May 2012, Pittsburgh, Pennsylvania.
- TECHCON: SRC-URO Poster Competition, 3rd Place, September 2011, Austin, Texas.
- Meeting of the Minds: SRC-URO Poster Competition, 1st Place, May 2011, Pittsburgh, Pennsylvania.
- Reckitt Benckiser: RB Experience Video Competition, 1st Place, August 2011, Montvale, New Jersey.

Internships:

- Reckitt Benckiser, Intern, May 2011 – August 2011
 - Product Innovation: Conducted laboratory research into creating new products
 - Idea Innovation: Developed programs, events, and multimedia projects while determining the feasibility of new product ideas

Outreach Activities:

- Student Government Senate: Senator – September 2011 - December 2011
- Carnegie Mellon University's Judicial Board – September 2009 – May 2012
- Kappa Alpha Theta: Gamma Theta Chapter, Fall 2009 – Present
- Society of Women Engineers, Fall 2009 – Present
- Student Government Executive Cabinet: Academic Liaison – Fall 2010/Spring 2011
- Carnegie Mellon, Lambda Sigma Sophomore Honor Society Treasurer – Fall 2009/Spring 2010
- Student Dormitory Council – Fall 2009/Spring 2010 (Buggy, Fall 2009 – Spring 2012)
- College of Engineering Deans List – Fall 2008/Spring 2010/Spring 2012

Skills:

- Laboratory:** Equipment handling and cleaning (including acid washing), hazardous waste training, BET machine certified, X-Ray Diffraction machine certified, FTIR certified
- Computer:** Java; MS Office; Windows 98, 2000, XP; Mac OS X
- Language:** Spanish: Semi-fluent (spoken and written)