

**Home Address**  
736 Castle Ridge Drive  
Ballwin, MO, 63021

# Brett Rygelski

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636-399-0129

**University Address**  
417 East Withrow Street  
Oxford, Ohio, 45056

## Education

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**Miami University**, Oxford, OH  
Bachelor of Science in Chemical Engineering  
Concentration: Biochemistry | GPA: 3.10/4.00  
Miami Non-Resident Academic Scholarship (four-year scholarship)  
Expected May 2017

**DeSmet Jesuit High School**, St. Louis, MO  
Men of the Year Recipient  
May 2013

## Professional Experience

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Millipore Sigma, R&D Intern (Protein Assay Group) St. Louis, MO  
May 2016-August 2016

- Grew three different cell cultures and conducted multiple Proximity Ligation Assays (PLA) for both microscopic slide read outs and flow cytometry read outs.
- Developed a robust protocol for PLA using flow cytometry read outs.

Independent Research Project, Miami University, Oxford, OH  
May 2015-December 2016

- Employed advanced molecular dynamic simulations and free energy calculations to predict the relative solubilities of novel compounds in various solvents.
- Worked under Dr. Andrew Paluch using the Modified Separation of Cohesive Energy Density Model (MOSCED) to determine binary interaction parameters for Wilson's equation for thermodynamic property modeling.
- Ran computer simulations using a high performance computer cluster at the Ohio Supercomputer Center to regress MOSCED parameters and find the solubilities of ethyl-, methyl- butyl- and propylparaben.

## Leadership Experience

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Theta Tau Professional Fraternity - Corresponding Secretary  
December 2015-Present

- Document club events and organize alumni events

American Institute of Chemical Engineers - Vice President  
May 2015-Present

- Organize club meetings and events including workshops and company tours
- Plan North Central Regional Conference at Miami in the April of 2016

Pi Kappa Alpha - Scholarship Chair  
December 2014-December 2015

- Scheduled study tables for the entire chapter and special sessions for struggling students

Beards for Cures - Outreach/Expansion chair  
April 2014-November 2015

- Expanded this fundraiser to the University of Missouri and the University of Kansas.
- Helped with on campus events including sponsoring a Phi Mu dad's weekend and t-shirt sales.

## Work Experience

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**GL Group**, St. Louis, MO  
May 2013 – January 2015  
Processing/Receiving (2014-2015) and Order Puller (2013)

- Tested new barcode scanning equipment to increase productivity in the warehouse
- Cross trained in shipping, processing, and pulling to assist different departments when there was an overflow of work in one area.

**Wehrenberg Theatres**, St. Louis, MO  
January 2011 - May 2013  
Usher and Concession

- Cleaned theatres after shows and set up for major events such as premiers.
- Served customers food and in charge of keeping concession items in stock behind the counter

## Additional Experience

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Independent Travel Abroad Experience  
Summer 2014

- Traveled abroad to England, Ireland, Netherlands, France, and Italy.