

# Gabriel Mancino-Ball

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## CONTACT INFORMATION

**Address:** 357 West Mark Street  
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## EDUCATION

**Bachelor of Science**, Mathematics, Expected May 2018  
*Winona State University*, Winona, MN Spring 2016 - Present  
Minor: Statistics  
GPA: 3.9/4.0

*St. Olaf College*, Northfield, MN Fall 2015  
GPA: 3.76/4.0

*University of Wisconsin - Eau Claire*, Eau Claire, WI Fall 2014 - Spring 2015  
GPA: 3.90/4.0

*Ellsworth Senior High School*, Ellsworth, WI Class of 2014  
GPA: 4.0/4.0

## RESEARCH EXPERIENCE

*Independent Study:* Summer 2017 - Present

- Analyzing the mathematical properties of the traditional Z-transform
- Exploring the Asymptotic Z-transform as a map from sequences to functions
- Performing computations using the Z-transform from a variety of fields including probability theory and signal processing
- Writing senior thesis paper and preparing seminar

*Presentation:*

- “The Asymptotic Z-Transform” November 2017  
St. Norbert PME Conference

## ACADEMIC TRAINING

*Mathematics Major:*

- Advanced Calculus I and II (S 2017, F 2017)  
Gave oral presentations titled “Asymptotic Convergence” and “Lebesgue Measure and Probability” using  $\text{\LaTeX}$
- Numerical Analysis (F 2017)  
Demonstrated a proficient knowledge of Mathematica to solve problems involving computations
- Topology (F 2017)  
Studied point-set and algebraic topology
- Abstract Algebra (S 2018)  
Course will develop ideas of groups, rings, and fields

*Statistics Minor:*

- Principles of Mathematical Statistics (F 2017)  
Examined mathematical theory of statistics  
Used  $R$  to solve statistical based problems
- Probability Theory (S 2016)  
Studied combinatorics, discrete, and continuous random variables
- Intermediate Statistics (F 2016)  
Analyzed datasets using JMP to develop better understanding of topics such as regression and association

<b>PROFESSIONAL EXPERIENCE</b>	<i>Peer Tutor</i> , Winona State University		December 2016 - Present
	<ul style="list-style-type: none"> <li>• Leading group and one-on-one supplemental instruction sessions on relevant mathematical and statistical subject content</li> <li>• Meeting high student demand for help with discrete mathematics, calculus sequence, and introductory statistics</li> <li>• Offering advice on study skills when applicable</li> </ul>		
	<i>Teller</i> , Wells Fargo		May 2016 - Present
	<ul style="list-style-type: none"> <li>• Providing quality service to customers by meeting quarterly payout metrics and customer service metrics</li> <li>• Awarded “Star Recognition” for creating an exemplary team atmosphere during the merger of two local branches</li> </ul>		
<b>COMPUTER SKILLS</b>	<i>Mathematical/Statistical Software:</i> Mathematica, R, JMP, Excel <i>Languages:</i> L <sup>A</sup> T <sub>E</sub> X, R		
<b>HONORS &amp; AWARDS</b>	<i>Certified Peer Tutor</i>		May 2017 - Present
	<i>Member of Pi Mu Epsilon</i>		Inducted Spring 2017
	<i>Dean’s List</i>		Fall 2014 - Spring 2017
<b>ACTIVITIES</b>	<i>Dean’s Advisory Council Member</i>		Fall 2017 - Present
	<ul style="list-style-type: none"> <li>• Nominated by department faculty to act as a liaison between the student populace and the Dean</li> <li>• Attending bimonthly meetings to develop strategies to promote College of Science and Engineering</li> </ul>		
	<i>Math Competitions</i>		
	<ul style="list-style-type: none"> <li>• “Face Off!” - Jeopardy Style Math Competition</li> </ul>		
	1 <sup>st</sup> place, St. Norbert College - PME		Fall 2017
	Participation, UW - La Crosse - MAA		Spring 2016
	<ul style="list-style-type: none"> <li>• William Lowell Putnam Mathematical Competition</li> </ul>		Fall 2017
	<ul style="list-style-type: none"> <li>• MAA - North Central Section Team Competition</li> </ul>		Fall 2017
	<i>Conferences</i>		
	<ul style="list-style-type: none"> <li>• Wisconsin PME, St. Norbert College</li> </ul>		November 2017
	<ul style="list-style-type: none"> <li>• Minnesota PME, St. John’s University</li> </ul>		April 2017
	<ul style="list-style-type: none"> <li>• Winona State University Department Seminars</li> </ul>		Spring 2017 - Present
	<i>Admit Day Student Panelist</i>		Spring 2017 - Present
	<ul style="list-style-type: none"> <li>• Promoting Winona State University to incoming students by answering questions regarding the Mathematics and Statistics department</li> </ul>		
	<i>Active Member of University Math/Stat Club</i>		Fall 2017
	<i>Senior Home Volunteer</i> (Boutwells Landing)		December 2016
	<i>Active Member of Winona State Barbell Club</i>		Spring 2017 - Present
<b>REFERENCES</b>	<i>Dr. Lee Windsperger</i>	<i>Dr. Eric Errthum</i>	<i>Dr. Silas Bergen</i>
	Associate Professor	Professor	Assistant Professor
	Winona State University	Winona State University	Winona State University
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