

# Martina Racchi

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## EDUCATION

### **Master of Science in Physics and Electrical Engineering**

University of Memphis, Memphis, TN  
Expected Graduation Date: December 2019  
Cumulative GPA: 3.88

### **Bachelor of Arts in Physics, May 2016**

University of Memphis, Memphis, TN  
Cumulative GPA: 3.57

## RELEVANT COURSES

Wind Energy Conversion Systems, Electrical Power Quality, Digital Signal Processing, Smart Grid, Linear Systems Analysis, Engineering Design, Electricity and Magnetism, Electronics, Math and Computational Physics, Thermal and Statistical Physics, Graph Theory, Computer Science II, Programming Languages

## TECHNICAL SKILLS

ArcGIS, Ansys, AutoCAD, Matlab, MS-Office Suite, Java, C, C++, Python, Perl, HTML, CFD Simulation, Data Visualization, Run-Time Optimization, Mathematical Modeling

## EXPERIENCE

### **Research Assistant, January 2017 - Present**

*University of Memphis, Electrical Power and Energy Systems Lab, Memphis, TN*

- Explore appropriate control means for transient stability and power quality of wind generator systems
- Investigate cost effective wind turbine generator systems with aim to increase power capacity

### **Graduate Assistant, August 2016 - Present**

*University of Memphis, Mid-South Access Center for Technology, Memphis, TN*

- Provide assistive technology training services for individuals with disabilities in the Mid-South region
- Install software, conduct presentations, develop training regimens, redesign applications and provide technical support for consultants with the resource center

## RESEARCH

Harnessing Wind Energy from fast moving vehicles, Fall 2017 - Present  
Methods for grouping galaxies using Friends of Friends algorithms, Spring 2017  
Categorization of galaxies by using Minimal Spanning Trees and investigating star formation, Fall 2014 - Fall 2015

## ACTIVITIES

**Captain**, Women's swimming and Diving, May 2015 - May 2016  
**Student Panelist**, University of Memphis, Spring 2014 - 2016  
**Vice-Captain**, Women's Soccer Team, May 2013 - May 2016

## AWARDS

University of Memphis, Special Achievement Award, Spring 2016  
University Katherine Scranton Rozendaal Citizenship Award, Spring 2016  
Dean's list, University of Memphis, Fall 2013 - Spring 2016