**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

**REVELANT** Wind Energy Conversion Systems, Electrical Power Quality, Digital Signal

**COURSES** 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** ArcGIS, Ansys, AutoCAD, Matlab, MS-Office Suite, Java, C, C++, Python,Perl,

**SKILLS** 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 stat 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