

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

University of Memphis, Memphis, TN
Graduation Date: May 2016
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.
Methods for grouping galaxies using Friends of Friends algorithms.
Categorization of galaxies by using Minimal Spanning Trees and investigating star formation.

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