1. **Name:** Valentina Cecchi **Academic Rank:** Assistant Professor

2. **Degrees:**

| | | |
|---|---|---|
| BS | Drexel University | 2005 |
| MS | Drexel University | 2007 |
| PhD | Drexel University | 2010 |

3. **UNC Charlotte (number of years = 5)**
   - Assistant Professor: 2010 - present

4. **Other related experience:**
   - Researcher, Drexel University, Philadelphia, PA, 2005 – 2010
   - Teaching Assistant, Drexel University, Philadelphia, PA, 2005 - 2010
   - Design Engineer, Italferr, Gruppo Ferrovie dello Stato, Rome, Italy, 2008
   - Engineering Intern, Exelon Nuclear, Kennett Square, PA 2003

5. **Certifications or professional registrations**:

6. **Current membership in professional organizations**
   - IEEE (Member), IEEE Power and Energy Society, IEEE Education Society, IEEE Power Electronics Society, IEEE Circuits and Systems Society, IEEE Women In Engineering (2005 – present)

7. **Honors and awards:**
   - Charlotte Business Journal 2013 Young Leader in Energy Award, 2013
   - 3rd Place: Engineering and 1st Place: People's Choice Awards, *U.S. DOE Solar Decathlon Competition, 2013*
   - 1st Place: Student Poster Competition, *IEEE Power and Energy Society, General Meeting*, 2011 and 3rd Place: Student Poster Competition, *IEEE Power and Energy Society, Transmission & Distribution Conference*, 2012. (Students' Awards)
   - 2nd Place: Student Poster Competition, *IEEE Power Engineering Society, Transmission and Distribution Conference*, 2008.
   - 1st Place: Student Paper Competition, *IEEE Instrumentation and Measurement Technology Conference*, 2006.

8. **Institutional and professional service in the last five years:**
   - UNC Charlotte ECE Power Systems FAIT Chair, 2014-present.
   - UNC Charlotte ECE Department Review Committee, 2015 - present.
   - UNC Charlotte ECE Chair Search Committee, 2014 - 2015.
   - IEEE Power and Energy Society Education Committee, 2011 – present.
   - 2015 North American Power Symposium, General Co-Chair, 2013-present.
   - IEEE NC Council Secretary, 2012-2014.

9. **Principal publications of last five years:**
   - V. Cecchi, M. Knudson, and K. Miu, "System Impacts of Temperature-Dependent Transmission Line Models", IEEE Transactions on Power Delivery, pp. 2300-2308, October 2013.

- M. Azarbayjani, B. Futrell, V. Cecchi, T. Gentry, A. Ebong, “The road map to the integrated design process of a net-zero energy solar house: A case study of a solar decathlon competition entry”, Journal of Green Building, pp. 20-37, July 2014.
- V. Cecchi, A. St. Leger, K. Miu, and C. Nwankpa, “Incorporating Temperature Variations into Transmission Line Models”, IEEE Transactions on Power Delivery, pp. 2189-2196, October 2011.
- K. Miu, V. Cecchi, M. Kleinberg, A. Deese, M. Tong, B. Kleinberg, “A Distribution Power Flow Experiment for Outreach Education,” IEEE Transactions on Power Systems, pp. 3-9, February 2010.
- A. Shrestha, V. Cecchi, R.W. Cox, “Minimum-cost generation-shedding for dynamic Remedial Action Scheme”, 2015 IEEE Power & Energy Society General Meeting, July 2015.
- B. Poudel, V. Cecchi, “Frequency-Dependent Transmission Line Modeling for Steady State Power System Harmonic Analysis”, IEEE 2015 North American Power Symposium, October 2015.
- S. Zilberdrut, V. Cecchi, “Investigating the Effects of Grid Equivalent Circuit at a Point of Common Coupling on Bus Voltage Variations Due to Variable Distributed Generation”, 2015 North American Power Symposium, October 2015.
- C. Liu, V. Cecchi, S. Kamel, “Analysis of AC Resistance in Non-Ferrous Bimetallic Solid Conductors”, 2015 North American Power Symposium, October 2015.
- M. Davoudi, V. Cecchi, “Effects of Stiffness Factor on Bus Voltage Variations in the Presence of Intermittent Distributed Generation”, 2015 North American Power Symposium, October 2015.
- A.S. Deese, V. Cecchi, B. Poudel, “Introduction of emerging technologies to distribution system laboratory modules via simulation”, IEEE Power & Energy Society General Meeting, July 2015.
- A. Shrestha, V. Cecchi, R.W. Cox, “Dynamic Remedial Action Scheme using online transient stability analysis”, 2014 North American Power Symposium, September 2014.
- V. Cecchi, S. Kamalasadan, J. Enslin, M. Miller, “Grid impacts and mitigation measures for increased PV penetration levels using advanced PV inverter regulation”, Proceedings of the 2013 IEEE Energy Conversion Congress and Exposition, 2013.
- A. Shrestha, V. Cecchi, R. Cox, “A real-time platform for validating continuous wide-area control systems”, Proceedings of the 2013 IEEE PES Innovative Smart Grid Technologies, February 2013.

**10. Professional development activities in the last five years:**

- IEEE Power and Energy Society General Meeting -Technical Program: 2010-present.
- North American Power Symposium - Technical Program: 2010-present.
- UNC Charlotte Faculty and Teaching Effectiveness Workshops: 2010-present.
- Reviewer for National Science Foundation, Energy Power Control & Networks Program: 2013-present.
- Principal investigator in multiple grants, including from National Science Foundation, Duke Energy, Electric Power Research Institute, U.S. Department of Energy: 2010-present.