

1. **Name:** Ryan Adams                      **Academic Rank:** Associate Professor

2. **Degrees:**

BSEE	University of Idaho	1999
BS Applied Mathematics	University of Idaho	1999
MSEE	University of Idaho	2005
PhD	University of Idaho	2007

3. **UNC Charlotte (Number of years = 9)**

- Associate Professor: 2013 -Present
- Assistant Professor: 2007 - 2013

4. **Other related experience:**

- Program Manager/Developmental Engineer, USAF, 2000 – 2004
- Aircraft Armament Systems Specialist, USAF, 1994 - 2000

5. **Certifications or professional registrations:**

6. **Current membership in professional organizations:**

- IEEE (Senior Member)
- IEEE Antennas and Propagation Society (2003 – present)
- IEEE Microwave Theory and Techniques Society (2005 – present)

7. **Honors and Awards:**

- UNC Charlotte Department of Electrical and Computer Engineering Undergraduate Award for Teaching Excellence, 2015
- UNC Charlotte Department of Electrical and Computer Engineering Undergraduate Award for Teaching Excellence, 2014
- UNC Charlotte Office of Disability Services Outstanding Faculty, 2013
- IEEE Antennas and Propagation Society Symposium Student Paper Contest 3<sup>rd</sup> Place Winner, 2007
- Air Force Commendation Medal, 2003

8. **Institutional and professional service in the last five years:**

- UNC Charlotte ECE Department Associate Chair, 2014 – Present
- UNC Charlotte ECE Department Undergraduate Coordinator, 2014 – Present
- UNC Charlotte ECE Department Undergraduate Committee Chair, 2014 – Present
- UNC Charlotte ECE Department Review Committee, 2014 – Present
- UNC Charlotte Provost's Early Transfer Registration Committee, 2015 – Present
- UNC Charlotte ECE Department ABET Committee, 2014 – Present
- UNC Charlotte ECE Department Research Coordinator, 2013
- UNC Charlotte ECE Department Hiring Committee, 2011, 2014 – 2016
- UNC Charlotte ECE Department Undergraduate Committee Member, 2011 – 2014
- UNC Charlotte ECE Departmental Advisory Committee, 2013 – Present
- IEEE Antennas and Propagation Society GOLD Committee Chair, 2008 – 2011
- IEEE Antennas and Propagation Magazine Contributing Editor, 2008 - 2011

9. **Principal publications of the last five years:**

- K. L. Smith and R. S. Adams, “A Novel Ultra-Wideband Fractal Monopole Antenna,” *IEEE International Symposium on Ant. and Propagat.*, Vancouver BC, July 2015.
- J. W. Shehan and R. S. Adams, “X-Band Waveguide Horn Antenna with Integrated Tunable Notch Filter,” *IEEE International Symposium on Ant. and Propagat.*, Vancouver BC, July 2015.
- T. P. Weldon, J. M. C. Covington III, K. L. Smith, and R. S. Adams, “Performance of Digital Discrete-Time Implementations of Non-Foster Circuit Elements,” *2015 IEEE International Symposium on Circuits and Systems*, Lisbon Portugal, May 2015.
- T. P. Weldon, J. M. C. Covington III, K. L. Smith, and R. S. Adams, “Stability Conditions for a Digital Discrete-Time Non-Foster Circuit Element,” *IEEE International Symposium on Ant. and Propagat.*, Vancouver BC, July 2015.
- T. P. Weldon, J. M. C. Covington III, K. L. Smith, and R. S. Adams, “A Two-Port Digital Discrete-Time Non-Foster Circuit Designed for Negative Capacitance,” *9<sup>th</sup> International Congress on Advanced Electromagnetic Materials in Microwaves and Optics*, Oxford UK, September 2015.
- T. P. Weldon and R. S. Adams, “A Digital Discrete-Time Non-Foster Approach to Broadband Fast-Wave Microstrip Lines,” *9<sup>th</sup> International Congress on Electromagnetic Materials in Microwaves & Optics*, Oxford UK, September 2015.
- R. S. Adams and A. K. Hatley, “A Trans-Impedance Green’s Function Model for the Dielectric Ring Circulator,” *PIER M*, Vol. 26, pp. 143-155.
- K. Smith, R. Adams, and T. Weldon, “A Novel Broadband Fractal Metamaterial Unit Cell,” *IEEE International Symposium on Ant. and Propagat.*, Memphis TN, July 2014.
- J. Shehan, R. Adams, and T. Weldon, “Metamaterial Measurement in a Cylindrical Coaxial Fixture with Consideration for Inter-Element Coupling,” *USNC-URSI National Radio Science Meeting*, Memphis TN, July 2014.
- T. P. Weldon, R. S. Adams, and J. Shehan, “Stability of Embedded Non-Foster Metamaterials with Potentially Unstable Circuit Parameters,” *7<sup>th</sup> International Congress on Electromagnetic Materials in Microwaves & Optics*, Bordeaux France, September 2013.

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

- NSF Grant, “CPS: Synergy: Collaborative Research: Fault Tolerant Brain Implantable Cyber-Physical System,” Oct 2015 – Sep 2018
- ABET Training Meeting, Sep 2014
- ABET Advanced Training Meeting, Oct 2014
- NSF I/UCRC, “Conformal Metamaterial Antennas,” 2013 – 2016
- NSF Grant, “Advanced Wideband Microwave Metamaterials,” 2011 – 2015
- NSF Grant, “Microwave Circulators Based on Magnetostatic Waves,” 2009 – 2015