

AARON D. SCHER

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EDUCATION

1. **UNIVERSITY OF COLORADO AT BOULDER**, Boulder, CO
Ph.D. in Electrical Engineering (December 2008)
2. **TEXAS A&M UNIVERSITY**, College Station, TX
M.S. in Electrical Engineering (May 2005)
3. **TEXAS A&M UNIVERSITY**, College Station, TX
B.S. in Electrical Engineering, Minor in Mathematics (May 2003)

EXPERIENCE

1. **SPACE SYSTEMS/LORAL**, Palo Alto, CA (2009 - 2010)
Senior Electrical Design Engineer – Designed waveguide filters and multiplexers for communication satellites.
2. **SHAKESPEARE AND COMPANY BOOK STORE**, Paris, France (Summer 2009)
Tumble Weed (Internship) – Shelved books, helped customers, closed and open store in return for lodging and accommodations.
3. **UNIVERSITY OF COLORADO AT BOULDER**, Boulder, CO (2005 - 2008)
Graduate Research and Teaching Assistant – Modeled and characterized electromagnetic metamaterials for a project sponsored by the National Science Foundation. Supervised a senior level undergraduate RF/microwave transmission laboratory class.
4. **TEXAS A&M UNIVERSITY**, College Station, TX (2003-2005)
Graduate Research and Teaching Assistant – Modeled parasitic effects of microstrip post-production tuning bars for a project sponsored by Raytheon. Supervised a sophomore level undergraduate electrical circuit laboratory class.
5. **LOCKHEED MARTIN**, Dallas, TX (Summer 2005)
Graduate Summer Intern – Designed radio frequency test equipment and antenna arrays.
6. **SOUTHWEST RESEARCH INSTITUTE**, San Antonio, TX (Summer 2004)
Summer Intern – Designed a battery test unit for an advanced beacon.

ACADEMIC AWARDS

1. Department of Education HYSE-GAANN Fellowship (2005)
2. IEEE MTT-S Pre-Graduate Scholarship (2003)
3. Fouraker Graduate Fellowship (2003)
4. Kennedy, Robert M '26 Endowed Scholarship (2002)

TECHNICAL PUBLICATIONS

1. A.D. Scher and E.F. Kuester, "Boundary effects in the electromagnetic response of a metamaterial in the case of normal incidence," *Progress In Electromagnetics Research B*, Vol. 14, 341-381, 2009.
2. A.D. Scher and E.F. Kuester, "Extracting the bulk effective parameters of a metamaterial via the scattering from a single planar array of particles," *Metamaterials*, vol. 3, no. 1, pp. 44-55, 2009.
3. A.D. Scher, C.T. Rodenbeck and K. Chang, "Compact ring resonator using negative refractive index microstrip line," *Microwave and Optical Technology Letters*, vol. 45, no. 4, pp. 294-295, 2005.
4. A.D. Scher, C.T. Rodenbeck and K. Chang, "Compact gap coupled resonator using negative refractive index microstrip line," *Electronics Letters*, vol. 40, no. 2, pp. 126-127, 2004.

CONFERENCE PRESENTATIONS

1. A.D. Scher and E.F. Kuester, "Electromagnetic response and generalized sheet transition conditions for a metamaterial in the case of oblique incidence," *2008 URSI North American Radio Science Meeting*, San Diego, California, July 5-12, 2008.
2. A.D. Scher and E.F. Kuester, "Electromagnetic response of a metamaterial taking into account surface effects using the point-dipole interaction model," *2007 URSI North American Radio Science Meeting*, Ottawa, Canada, July 22-26, 2007.