

Ryan S. Sincic

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Summary

Pursuing the nursing specialization of Acute Care Nurse Practitioner. Educated and experienced in biomedical engineering, medical physics, healthcare, electronics, computer programming, microinstrumentation, pharmacology, radiology, and electrophysiology. Intelligent, hardworking and dependable. Excellent customer service, teamwork and communication skills. Good public speaker. Friendly and easy to work with.

Education

Bachelor of Science in Physics, University of Utah, 2001

Honors: Deans List for Good Grades (5 semesters)

GPA: 3.3 /4

Masters of Biomedical Engineering, University of Utah, Expected Graduation December 2005

Honors: IGERT Research Fellowship, Financial Award \$30,000/year + Tuition

GPA: 3.8/4

Biomedical Research and Engineering

Bioinstrumentation, Actuators, Sensors and Separations Laboratory **2003-**
Present

University of Utah

Research Assistant and Masters Student in Bioinstrumentation Group

Supervisor: Professor Bruce Gale, gale@eng.utah.edu

- Biochemical testing research.
- Research and development of a novel drug discovery assay.
- Fabrication of a microfluidic system for cell handling, cytotoxicity testing and drug perfusion.
- Identification of cell lines with genetic resistance to pharmaceutical agents.

United States Department of Defense, Naval Research Laboratory
Summer 2004

Washington D.C.

Nova Research Contractor and Visiting Scientist

- DNA assay research and development of a biosensor for detecting airborne biochemical agents.
- Engaged in surface chemistry, magnetic nanobead labeling of DNA molecules and development of microscope imaging software for biochemical tests.

Oregon Health Science University, Department of Electrophysiology **2002-**
2003

Biomedical Research Engineer

Supervisor: Professor Larry Trussell, trussell@ohsu.edu

- Developed computational neuroscience software using the IGOR programming environment.
- Developed electronics for single cell voltage clamp recordings.

Center for Neural Interfaces, University of Utah **2002**

Biomedical Research Engineer for Neuroprosthetic Research.

Supervisor: Professor Richard Normann, normann@utah.edu

- Developed Electroencephalogram (EEG) hardware and software for research in neuroprostheses and invasive electrophysiology studies.
- Assisted with experimental neurosurgery and cortical implants, for in vivo testing of instruments.

Philips Medical Systems
2002

2000-

Clinical Radiological Imaging Equipment, Field Service Engineer

Supervisor: Steve Albers, steve.albers@philips.com

- Performed installations, repairs, upgrades, and clinical support on MRI, X-ray, and other radiological devices. Detailed knowledge of system microcontrollers, electronics, mechanics, software, and networks.
 - Ryan was one of 5 service engineers responsible for an annual 1.5 million dollar radiological equipment service contract.
 - Supervised subcontracted systems work and labor.
 - Developed outstanding customer relations with medical doctors and other hospital employees.
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Volunteer Work

University Hospital Patient Advocate
Present

2005-

Supervisor: Maria Anton 801 581-2699

- Serve to help inpatients communicate with their nurses and other hospital personnel.
- Help to increase the comfort of inpatients by filling special requests, such as helping patients contact their families, assisting patients in walking, bringing special food orders, and spending extra time talking with patients who are lonely.
- My duties include inquiring if inpatients healthcare needs are being met by the hospital. I expedite any patient needs I can take care of myself and report the information to the clinic's nurse manager.
- I see many Spanish-speaking patients and do some translating for hospital personnel.

Caribbean Conservation Corporation, Tortuguero Costa Rica

1997

Research Assistant for Green Sea turtle Conservation and Monitoring Project

Supervisor: Sebastian Troeng

- Collected nesting data on green sea turtles nesting on the beach in Tortuguero.
- Produced Poster, which was displayed at the 1997 Green Sea Turtle Symposium.
- Lived and worked at a remote jungle research station in Tortuguero Costa Rica for 5 weeks.
- Spoke Spanish daily.

YMCA Children's After School Program

1994

After school program for emotionally and behaviorally challenged children.

- Supervised 10-13 year old children.
 - Helped coordinate creative activities for children.
 - Taught children to play games, sports and work together on creative art projects.
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Teaching Experience

Department of Mathematics, University of Utah 2000

1998-

Lab Supervisor, Math Tutor and Computational Software Assistant.

Supervisor: Angela Gardiner, gardiner@math.utah.edu

- Tutoring college science and engineering math classes, including all math classes required for Physics and Electrical Engineering; Calculus, Differential and Partial Differential Equations, Linear Algebra, Complex Variables, and Business Calculus.
- Taught groups of students and individuals quantitative and analytical engineering mathematics.

Ski Instructing at Solitude Ski Resort 2000

1997-

Supervisor: Leif Grevle

- Teaching all levels of Skiers beginning through advanced, children and adults.

Internships and Undergraduate Research

Cosmic Ray Research Group, University of Utah Department of Physics 2000

1999-

Research Assistant for Cosmic Ray Research Supervisor: kieda@physics.utah.edu

- Hardware design and software programming of atmospheric sensing, and RF data transmission system.

SPIA, Online Publishing Group of the Valencia Community, Valencia Spain

2003

- Collected information and photographed community events.

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Spanish Language

Con conversationally Fluent in Spanish

Gracias a haber trabajado en Costa Rica y España hablo un buen castellano. Puedo escribir español bien y expresar mis opiniones sin asistencia del diccionario. Quiero aprender mas terminología medica para servir a los pacientes hispanos.

I speak Spanish well, because I have taken a number of classes in the U.S. and Spain. I have spent time working in both Spain and Costa Rica. I can write in Spanish well enough to get across my point without the assistance of a dictionary. I plan on learning more medical Spanish as I advance through my career in nursing.

Certifications/Licenses

American Red Cross First Aid, American Red Cross CPR/AED, American Red Cross Babysitter, Marconi Medical Systems MRI Service Engineer, PADI SCUBA Level 1, FIFA Soccer Referee.

Personal Interests and Hobbies

Soccer, Hiking, Backpacking, Mountain Climbing, Backcountry Skiing, Bicycling, Tennis, International Travel, Cross-Cultural Similarities, Cooking, and Nutrition.

Publications

Badi A.N., **Sincic R.S.**, Shelton C., Normann R.A., “Electrode Interaction in a Novel Auditory Prosthesis using an Intranueral Stimulating Electrode Array,” 33rd Neural Prosthesis Workshop, 2002, NIH, Bethesda, MD.

Badi A.N., T. Owa, **Sincic R.S.**, Shelton C., Normann R.A., “Channel Selectivity and Chronic Studies of a Novel VIII Nerve Auditory Prosthesis,” Society for Neuroscience, Orlando, 2002.

Sincic R., Gale B., Barrows L., “A Microfluidic Device for Cell Culture and Drug Toxicity Testing,” Preparing to Submit.