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(MAIDEN NAME: SITEK)

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EDUCATION

- August 2008 (expected) Ph.D., Harrington Dept. of Bioengineering, Bioengineering, Arizona State University, Tempe, AZ.
 Dissertation title: *Deep Brain Stimulation Amplitude and Clinical Outcomes in Parkinson's Disease*
 Committee: James Abbas (chair), Stephen Helms-Tillery, Ranu Jung, Daniel Lieberman, and Peter Steinmetz.
- August 2003 M.S., Harrington Dept. of Bioengineering, Bioengineering, Arizona State University, Tempe, AZ.
 Thesis title: *Development of an Inexpensive Upper-Extremity Prosthesis for Use in Developing Countries.*
 Committee: Gary Yamaguchi (chair), Donald Herring, James Sweeney.
- May 2001 B.S. in Engineering, Harrington Dept. of Bioengineering, Bioengineering, Arizona State University, Tempe, AZ, May 2001, Magna Cum Laude.

PUBLICATIONS

- Sitek, A. J., Yamaguchi, G. T., Herring, D. E., Willems, C. J., Boninger, D., & Boninger, R. M. (2004). "Development of an Inexpensive Upper-Extremity Prosthesis for Use in Developing Countries", *Journal of Prosthetics and Orthotics*, 16(3), 94-102.
- "Development of an Inexpensive Upper Extremity Prosthesis", Final Report, National Institutes of Health, Phase I SBIR #1 R43 HD43512-01, Dec. 2003, written report submitted by Sitek, A., Willems, C., Herring, D., Yamaguchi, G., Boninger, D., & Boninger, R.

CONFERENCE PROCEEDINGS

- Sitek, A. J., Abbas, J. J., Lieberman, D. M., Mahant, P., & Samanta, J. "Location and Orientation of Active Contacts in Deep Brain Stimulation Systems", *Proc. SfN Conf.*, (Atlanta, GA), 2006.
- Sitek, A., Abbas, J., Lieberman, D., Mahant, P., & Samanta, J. "DBS Electrode Location and Clinical Outcomes in Parkinson's Disease", *Proc. ASSFN Conf.*, (Boston, MA), 2006.
- Sitek, A. J., Yamaguchi, G. T., Herring, D. E., Willems, C. J., & Boninger, D. "Development of an Inexpensive Upper-Extremity Prosthesis", *Proc. IEEE/BMES Conf.*, (Nashville, TN), 2003.

Sitek, A. J., Yamaguchi, G. T., Herring, D. E., Willems, C. J., & Boninger, D. “Development of an Inexpensive Upper-Extremity Prosthesis”, *Proc. RESNA Conf.*, (Atlanta, GA), 2003.

RESEARCH EXPERIENCE

- 2004-present Research Assistant for James Abbas, Arizona State University, Tempe, AZ.
Examining the relationship between electrode placement and the effects of deep brain stimulation on several motor outcomes in Parkinson’s patients. Assisting with grant writing and preparation.
- 2001-04 Research Assistant for Gary Yamaguchi, Arizona State University, Tempe, AZ.
Designed and tested a low-cost prosthetic arm intended for use in developing countries. Assisted with grant writing and preparation.

RESEARCH INTERESTS

Rehabilitation engineering, Deep brain stimulation, Neuroprostheses, Assistive technology for developing countries, Biomechanics.

TEACHING EXPERIENCE

- Fall 2006 Co-Instructor, Biomechanics, Arizona State University, Tempe, AZ.
- Nov 2, 2006 Invited Lecturer, Neuroscience, A. T. Still University, Mesa, AZ.
- Aug 22-24, 2005 Guest Lecturer, Biomechanics, Arizona State University, Tempe, AZ.
- Nov 16, 2004 Guest Lecturer, Neural Prostheses, Arizona State University, Tempe, AZ.
- Oct 25-29, 2004 Guest Lecturer, Biomechanics, Arizona State University, Tempe, AZ.
- 1997-2005 Private Tutor, General Math through Calculus I.
- 2002-03, 2005-06 Mentor, BME Senior Design students, Arizona State University, Tempe, AZ.
- 2000-01 Instructor, Algebra 1, Grace Community Christian School, Tempe, AZ.

TEACHING INTERESTS

Biomechanics, Physiology for engineers, Assistive technology for developing countries, Introduction to medical imaging.

GRANT PROPOSALS

- Abbas, J., Krishnamurthi, N., Mulligan, S., & Sitek, A. (2005) “Deep Brain Stimulation: Electrode Location, Stimulation Parameters, and Clinical Outcomes”, American Parkinson Disease Association, Roger C. Duvoisin, MD Fellowship. (not funded)
- Willems, C., Herring, D., Yamaguchi, G., Boninger, D., Boninger, R., & Sitek, A. (2003) “Development of an Inexpensive Upper Extremity Prosthesis”, National Institutes of Health, Phase II SBIR. (not funded)

Willems, C., Herring, D., Yamaguchi, G., Boninger, D., Boninger, R., & Sitek, A. (2002)
 “Development of an Inexpensive Upper Extremity Prosthesis”, National Institutes of
 Health, Phase I SBIR, \$99,652, 1/03 - 12/03.

FELLOWSHIPS AND AWARDS

2007-08	Harrington Dept of Bioengineering Graduate Research Associateship.
2006-07	Harrington Dept of Bioengineering Graduate Teaching Associateship.
April 2005	2005-06 Preparing Future Faculty (PFF) Faculty Emeriti Fellowship.
June 2003	Winner of the Rehabilitation Engineering and Assistive Technology Society of North America (RESNA) Student Design Competition.
2001-06	Flinn Foundation Bioengineering Fellowship.

SERVICE

2007-present	Purdue Christian Campus House (PCCH)/Lifewater International water pump project for developing countries.
2007-present	Monthly meal preparation for Lafayette Urban Ministry.
2007-present	Member of the PCCH worship team (pianist).
November 2007	Purdue University community winterization.
2005-07	Weekly volunteer at Rio Vista food and clothing bank, Phoenix, AZ.
2002-07	ASU Bioengineering Day senior design projects judge.
2002-07	Contact for prospective bioengineering graduate students at ASU.
2002-04	Biomechanics lab tour leader at ASU.
Fall 2004	Organizer of PFF Guest Scholar Breakfast Lecture Series at ASU.
March 2004	ASU Cares Volunteer Project.
January 2004	Bioengineering outreach to local junior high, Tempe, AZ.
May 02, July 00	Construction projects with Food for the Hungry (FH), Lima, Peru.
May 1999	House construction after Hurricane Mitch with FH, Condega, Nicaragua.
July 1998	Volunteer at Joni and Friends (JAF) retreat for families affected by disability.

PROFESSIONAL DEVELOPMENT

June 2005	Crash Course in Online and Hybrid Teaching, Learning, and Assessment; Center for Learning and Teaching Excellence, ASU
May 2005	Active Learning, Center for Learning and Teaching Excellence, ASU
2004-06	Preparing Future Faculty (PFF) fellow at ASU.

SKILLS

Software: Matlab, The MathWorks.

SPSS, SPSS Inc.

SolidWorks, SolidWorks Corporation.

FrameLink™ Stereotactic Linking System, Medtronic.

Equipment: Vicon MX motion capture system, Vicon.

Nest of Birds™ motion tracking system, Ascension Technology Corporation.

LiteGait partial weight bearing gait & balance therapy system, Mobility Research.

Other: Design of multiple protocols for human subjects research in compliance with Institutional Review Boards at both Arizona State University and Banner Good Samaritan Medical Center, Phoenix, AZ.

PROFESSIONAL MEMBERSHIPS

2006-present Society for Neuroscience

2004-2006 Biomedical Engineering Society (national and ASU chapter)