

Sam L. Phillips, PhD, CP, FAAOP
8453 Merrill Circle
Seminole, FL 33777
phillips.sam@scollege.edu
(727) – 341 4150

EDUCATION

Ph.D. Biomedical Engineering
Rutgers University and the University of Medicine and Dentistry of New Jersey
Graduation: May 2007

ABC Certified Prosthetist March 2002

Prosthetic Residency – Kessler Institute for Rehabilitation
Completion: June 2001

Rutgers-UMDNJ Prosthetics Training Program
Completion: May 2000

Bachelor of Science, Physics
Minor, Chemistry
The University of North Carolina at Chapel Hill
Graduation: May 1998

WORK EXPERIENCE

Fourier Designs, Co-Founder
March 2006- present

Co-founder of Start-up Company to bring innovative ideas through product development in the field of rehabilitation engineering

St. Petersburg College, Dean, School of Orthotics and Prosthetics
May 2005 – Present

- Charter dean, responsible for development, accreditation, budgeting, faculty hiring and development
- Expected to be the largest baccalaureate training program in the united states by 2007
- Responsible for design oversight of a \$10,000,000, 27,000 sq ft, state of the art orthotics and prosthetics teaching facility and clinical laboratory
- Responsible for 2 full time and 10 adjunct instructors and a \$500,000 annual budget

Hanger Prosthetics and Orthotics, Practice Manager, GCOA Baltimore Office at Union Memorial Hospital
July 2003 – April 2005

Allied Orthotics and Prosthetics, Certified Prosthetist
July 2001-July 2003

Kessler Institute for Rehabilitation, Prosthetic Resident June 2000 – June 2001

UNC-CH Pathology Department, Research Technician
June 1998 – January 1999

- Examining, the androgen receptor and its loss of need for substrate in prostate cancer

Duke University Pharmacology Department, Research Technician
May – September 1996 and 1997

- Worked to show that Iptase activity inhibits DNA synthesis and to identify targeting sequence in the Proline Neurotransporter

Emergency Medical Technician, Orange Country, NC 1997-1999

TEACHING EXPERIENCE

St. Petersburg College

- Developed Curriculum for entire bachelor of applied science in orthotics and prosthetics degree program
- Integrated online teaching into the orthotics and prosthetics program

Rutgers University

- Project Coach and Guest lecturer for Design of Assistive Devices Spring 2003
- Instructor for "Introduction to Prosthetics" Fall 2001,2002 including designing syllabus and lesson plans
- Guest lecturer for "Introduction to Prosthetics" Fall 2004
- Assistant Instructor for "Prosthetics Lower Limb I", "Prosthetics Lower Limb II", and "Prosthetics Upper Limb" Spring 2002

HONORS AND AWARDS

Fellow of The Academy of Orthotists and Prosthetists 2006

Rutgers-UMDNJ NIH Biotechnology Training Program Fellowship 2000-20003

New Jersey Center For Biomaterials 1999-2000 Whitaker Fellowship

New Jersey Center For Biomaterials Summer Award 1999

Eagle Scout

National Merit Scholar - Commended Student

SOCIETIES MEMBERSHIPS

Society for Biomedical Engineering 1999-2001

Associate Member: Sigma Xi, The Scientific Research Society 2000-2002

American Academy of Orthotists and Prosthetists (AAOP) 2001-Present

International Society for Prosthetics and Orthotics (ISPO) 2002-Present

Research Education Committee of AAOP 2002-Present

PUBLICATIONS

Kathryn J. DeLaurentis and Sam L. Phillips, "Design of a Powered two-DOF prosthetic wrist" *Proceedings of 12th World Congress International Society of Orthotics and Prosthetics*, Vancouver, BC, July 29 – August 3, 2007, p524

Sam L. Phillips and William Craelius, "Residual kinetic imaging as a control source for multi-finger hand prostheses" *Robotica* May 2005 Vol. 23, pp. 277-282

Sam L. Phillips and William Craelius "Material Properties of Selected Prosthetic Laminates" *Journal of Prosthetics and Orthotics*, January 2005 Vol. 17, No. 1, p. 27-32

Nan Ham Kim, James Flint, Jamie Dougherty, Sam Phillips, and William Craelius "Quantification of Upper-limb control" *Transactions of BMES* June 2005

James A. Flint, William Craelius and Sam Phillips "A Myokinetic interface for upper limb amputees" *Transactions of the Society for Biomaterials*, Philadelphia, PA October 2004

James A. Flint, Willam Craelius, Sam L. Phillips, and Gary Dryzecki "HARI – Hand Arm Rehabilitation Interface" *Transactions of the Society for Biomaterials*, Philadelphia, PA October 2004

James A. Flint, Sam L. Phillips and William Craelius "Myo-Kinetic Interface for a Virtual Limb" *2nd International Workshop on Virtual Rehabilitation* Piscataway, NJ September 21-22 2003, p113-118

Manjuladevi Kuttuva, James A. Flint, Grigore Burdea, Sam Phillips and William Craelius "VIA: A Virtual Interface for the Arm of Upper-limb Amputees." *2nd International Workshop on Virtual Rehabilitation* Piscataway, NJ September 21-22 2003, p. 119-126

Sam L. Phillips and William Craelius "Comparison of Material Properties of Laminated Prosthetic Sockets" *American Academy of Orthotics and Prosthetics Annual Conference San Diego, CA* March 17-21 2003

James A. Flint, Sam L. Phillips, and William Craelius "Residual Dynamic Mapping and Pseudoinverse Filtering For Prosthetic Control" *Proceedings of Myoelectric Control*, August 19-23,2002, Fredricton, New Brunswick, Canada

Sam L. Phillips, Rochel L. Abboudi, Michael Kogan, David J. Curcie, James A. Flint Nicki A. Newby, and William Craelius, "A Smart Interface for a Biomimetic Upper Limb Prosthesis" *Proceedings of The Sixth World Biomaterials Congress*, No. 1343, May 15-20, 2000

Sam L. Phillips, William Craelius, " Assessment of Material Interface in a Biomimetic Upper Limb Prosthesis" *Proceedings of the fifth New Jersey Symposium on Biomaterials Science* p-18-19, November 9-10, 2000

Presnell S, Glover W, Phillips S, Borchert K, Grisham JW, "Expression of human HGF and c-met alters the phenotype of WB-F344 rat liver epithelial cells" *FASAB Journal*, 13 (4): A161-A161, Part 1, Suppl. S MAR 12 1999