

Tricia L. Gibo, PhD

Amsterdam, Netherlands

+31 628804308

✉ tricia.gibo@gmail.com

🌐 www.triciagibo.com

Education

- Dec 2013 **PhD, Mechanical Engineering**, *Johns Hopkins University*, Baltimore, MD, USA.
2009 **MS, Mechanical Engineering**, *Johns Hopkins University*, Baltimore, CA, USA.
Grade Point Average: 3.98/4.0
2007 **BS, Mechanical Engineering**, *University of Southern California*, Los Angeles, CA, USA.
School of Engineering Valedictorian (ranked 1 of 480 students) | Grade Point Average: 3.98/4.0

Research & Work Experience

- Feb 2014 – present **Postdoctoral Research Fellow**, *Delft Univ. of Technology*, BioMechanical Engr., Haptics Lab.
 - Design and validate augmented haptic feedback for human-machine interfaces to enhance performance.
 - Present to both technical (World Haptics Conference 2015, ~60 engineering researchers) and non-technical (Medisch Interfacultair Congres, ~300 medical students) audiences.
 - Write and review articles for scientific journals and conferences.
- Nov 2012 – Dec 2013 **Visiting Researcher**, *Stanford Univ.*, Mechanical Engr., Collaborative Haptics & Robotics in Medicine Lab.
 - Analyzed user grip force on custom da Vinci Surgical System and haptic device.
- June – Aug 2010 **Visiting Researcher**, *Advanced Telecommunications Research Institute International (Japan)*, Computational Neuroscience Lab.
 - Collaborated with international researchers on bimanual robot study.
- Aug 2007 – Oct 2012 **Graduate Researcher**, *Johns Hopkins Univ.*, Mechanical Engr./Neuroscience, Haptics Lab/Motion Analysis Lab (collaboration).
 - Measured and modeled arm deficits of cerebellar ataxia patients with exoskeleton robot.
 - Designed controllers and evaluated haptic feedback for human-machine interfaces with surgical applications.
 - Presented at international conferences, honed skills in technical writing and data visualization.
- May – August 2007 **R&D Intern**, *Medtronic Diabetes (USA)*.
 - Designed and tested effectiveness of glucose sensors.

Skills & Relevant Courses

Programming: Matlab (proficient) | C++ (familiar)

Graphics: Adobe Illustrator

Courses: Robot Sensors & Actuators | Advanced Statistical Methods | Computer Vision | Learning Theory

Leadership Experience

- 2014–current **Co-Chair**, *IEEE Shared Control Technical Committee*, Give workshops and tutorials at international conferences, coordinate review process of conference papers.
- 2014–current **STW H-Haptics Program**, Organize symposiums and autumn schools for Dutch research program (14 PhDs, 3 PostDocs, 4 universities, several companies).
- 2007–2011 **Secretary/Treasurer/Public Relations**, *Women of Whiting*, Planned seminars and events for graduate women engineers.
- 2006–2007 **Secretary**, *Tau Beta Pi*, Organized activities for undergraduates in engineering honors society.
- 2003–2007 **Vice President/Chair of Corporate Affairs**, *Associated Students of Biomedical Engineering*, Arranged meetings, speakers, and luncheon with industry representatives for undergraduates.

Mentoring Experience

2014-current Guide and advise students through master thesis projects (7 students).

Teaching Experience

Responsibilities included guest lecturing, preparing/grading assignments and exams, giving feedback on research projects, holding review sessions and office hours, and conducting laboratory sessions.

2014, 2015 **Guest Lecturer**, *The Human Controller*, 80 graduate students.

2014, 2015 **Supervisor**, *Applied Experimental Methods*, 15 graduate students.

2009 **Teaching Assistant**, *Introduction to Robotics*, 17 graduate students.

2009 **Teaching Assistant**, *Design & Analysis of Dynamic Systems*, 39 undergraduate students.

Fellowships & Awards

Link Foundation: Fellowship in Advanced Simulation and Training (1 yr, \$28,500)

US National Science Foundation: Graduate Research Fellowship (3 yr, \$30,000/yr, 15% success rate) | East Asia and Pacific Summer Institutes Fellowship (research abroad) | GRASSROOTS Fellow (travel grant)

Johns Hopkins University: Whiting School Dean's Fellowship (5 yr)

University of Southern California: Trustees Scholarship (full tuition) | Merit Research Scholarship

Languages

English (native) | Dutch (CEF level B1)

Hobbies

Rock climbing (outdoor trips, teaching friends, participating in local competitions); traveling

Personal information

Place of birth: CA, USA | Date of birth: 19/5/1985