

PETER PIETRZYK

EDUCATION

- 01/2017 – now **University of Georgia, Athens, GA, USA**
Dept. of Plant Biology, Computation Plant Science Lab, PhD Student, Graduate research assistant
- 09/2011 – 01/2015 **Delft University of Technology, Delft, The Netherlands**
Master of Science Geomatics, MSc thesis: Change detection in forests using multi-temporal high density airborne laser scanning data
- 11/2012 **Czech Technical University, Prague, Czech Republic**
Athens Programme (1 week exchange), Digital signal and image processing with applications
- 09/2005 – 08/2012 **Delft University of Technology, Delft, The Netherlands**
Bachelor of Science Aerospace Engineering, Minor: Earth and Planetary Observation Technology

EMPLOYMENT

- 10/2015 – 12/2016 **Geocart, Herten, Germany**
Geomatics Engineer, Quality control, sensor operator (aerial images, ALS), GPS surveying
- 02/2015 – 09/2015 **GeoSignum, Delft, The Netherlands**
Junior Geomatics Engineer (part-time), Road feature extraction from airborne and mobile laser scanning, 3D modelling, spatial database development
- 01/2014 – 06/2014 **GeoSignum, Delft, The Netherlands**
Internship (2 days/week), 3D modelling using mobile laser scanning data
- 10/2004 – 06/2005 **Military Service**, Stabskompanie, 7. Panzerdivision

PUBLICATIONS

- R.C. Lindenbergh, **P.J. Pietrzyk** 2015 - Change detection and deformation analysis using static and mobile laser scanning, Applied Geomatics, pages 1-10
- P.J. Pietrzyk** and R. C Lindenbergh, 2014 - Detection of harvested trees in forests from repeated high density airborne laser scanning, ISPRS Annals of Photogrammetry, Remote Sensing and Spatial Information Sciences, II-5, 275-280
- D. Lee, **P.J. Pietrzyk**, et al., 2013 - Modeling and observation of heat losses from buildings: The impact of geometric detail on 3D heat flux modelling, 33rd EARSeL Symposium

POSTERS (*corresponding author, + presentation)

- P. Pietrzyk**^{*,+}, C. Chutoe, P. Saengwilai, A. Bucksch – Automated phenotyping of root hair traits from microscopy images. Poster at “CROPS 2017”, Huntsville, AL, USA, June 5-8 2017
- P. Pietrzyk**, J. Burrige, N. Klepp, J. Miller, J.P. Lynch, A. Bucksch^{*,+} – The phenotypic spectrum of crop roots. Poster at “Plant Biology 2017”, Honolulu, HI, USA, June 23-28 2017
- P. Pietrzyk**^{*,+}, C. Chutoe, P. Saengwilai, A. Bucksch – Automated phenotyping of root hair traits from microscopy images. Poster at “Plant Biology 2017”, Honolulu, HI, USA, June 23-28 2017
- P. Pietrzyk**^{*,+}, C. Chutoe, P. Saengwilai, A. Bucksch – Automated phenotyping of root hair traits from microscopy images. Poster at “Phenome 2018”, Tucson, AZ, USA, February 14-17 2018
- P. Pietrzyk**^{*,+}, C. Chutoe, P. Saengwilai, A. Bucksch^{*} – Automatic detection and quantification of individual root hairs in complex arrangements. Poster at “Plant Biology 2018”, Montreal, Canada, July 14-18 2018

PRESENTATIONS

06/2014 **ISPRS Technical Commission V Symposium, Riva del Garda, Italy**
Talk: Detection of harvested trees in forests from repeated high density airborne laser scanning

TEACHING

04/2009 – 06/2009 **Delft University of Technology, Delft, The Netherlands**
Teaching assistant, programming in Java

08/2018 – (ongoing) **University of Georgia, Athens, GA**
Teaching assistant, Collaboratorium: Discovering Underground Communication

TRAVEL AWARDS

2017 Travel grant to attend Field-Based High Throughput Phenotyping Workshop in Maricopa, AZ (\$500)

2018 Travel grant to attend Phenom 2018 conference on phenotyping of plants in Tucson, AZ (\$1380)

MENTORING

Chartinun Chutoe Visiting scholar from Mahidol University (University of Georgia, Athens, USA), Effects of Suboptimal Nitrogen Phosphorus Potassium on Root Hair Development of Rice, Maize and Soybean

SYNERGISTIC ACTIVITIES

2018 Treasurer, Plant Biology Graduate Student Association

2018 Committee member for professional development workshop at UGA Plant Center Fall Retreat

2018 Volunteer at Plant Biology 2018 conference (ASPB) in Montreal, Canada