

CURRICULUM VITAE: Cristina Pasquinelli

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Born: June 1990

Work address:

Danish Research Centre for Magnetic Resonance (DRCMR)

Copenhagen University Hospital Hvidovre

Kettegaard Allé 30

DK-2650 Hvidovre

SCIENTIFIC FOCUS AREA

Transcranial focused ultrasound brain stimulation (TUS)

Safety and dose control of TUS

Ultrasound beam characterization

EDUCATION

2015-2019 PhD Student, Technical University of Denmark, Health Tech Dept., Kgs. Lyngby - Denmark

PhD thesis: Safety and dose estimation of transcranial focused ultrasound stimulation (TFUS)

PhD thesis supervisor and co-supervisors:

Assoc. Prof. Axel Thielscher, main supervisor

Assoc. Prof. Lars G. Hanson, co-supervisor

Assist. Prof. Hyunjoo J. Lee, co-supervisor

2012-2015 M.Sc. degree in Biomedical Engineering, Università degli Studi di Genova, Genoa - Italy

M.Sc. thesis title: Force and position control in a hybrid task

M.Sc. Thesis advisor: Assoc. Prof. Maura Casadio

Final grade: 110/110 cum laude

2009-2012 B.Sc. degree in Biomedical Engineering, Università degli Studi di Genova, Genoa - Italy
Final grade: 106/110

2009-2014 admission and certificate at ISICT (Institute of Advanced Studies in Information and Communication Technologies, <http://www.isict.it/index-eng.htm>) during both the Bachelor and Master (with scholarship) program.

WORK AND ACADEMIC EXPERIENCE

2019-present postdoctoral researcher, Danish Research Centre for Magnetic Resonance, Copenhagen University Hospital, Hvidovre, Denmark

09/2016-09/2017 PhD external stay at BMM (Brain-Bio Medical Microsystem) lab, KAIST (Korean Advanced Institute for Science and Technology), South Korea

09/2014-03/2015 M.Sc. thesis student internship at RBCS (Robotics, Brain and Cognitive Sciences) department, IIT (Italian Institute of Technology), Genoa, Italy

CERTIFICATE

04/2018 Laboratory Animal Science certification (FELASA accreditation F032/10), University of Copenhagen

05/2018 Completion of Research Writing Boot Camp (<http://writeconcept.dk/bootcamps>)

PUBLICATIONS

Journal Papers (peer-reviewed)

Pasquinelli C., Hanson L. G., Siebner H. R., Lee H. J., Thielscher A. (2019) *Safety of transcranial focused ultrasound stimulation: A systematic review of the state of knowledge from both human and animal studies*, Brain Stimulation. doi: 10.1016/j.brs.2019.07.024

Kim H., Kim S., Sim N. S., Pasquinelli C., Thielscher A., Lee J. H., Lee H. J. (2019) *Miniature ultrasound ring array transducers for transcranial ultrasound neuromodulation of freely-moving small animals*, Brain Stimulation, 12(2):251-255. doi: 10.1016/j.brs.2018.11.007

Conference abstracts

Pasquinelli C., Montanaro H., Lee H. J., Kuster N., Neufeld E., Thielscher A. *Physics based, validated reliable modeling of single element focused ultrasound transducer (SEFT)*. Poster at 19th International Symposium of ISTU - 5th European Symposium of EUFUS, Barcelona, Spain, June 13-15, 2019

Pasquinelli C., Montanaro H., Neufeld E., Lee H. J., Thielscher A. *Impact of the skull model on simulated TFUS beam profiles*. Poster at 40th International Engineering in Medicine and Biology Conference (EMBC), Honolulu, Hawaii, July 17-21, 2018