Dr. Lena Kranold PHD IN ELECTRICAL ENGINEERING

Perth, Australia

(+61) 421 368 341 | ⊠ lena.kranold@uwa.edu.au | in lena-kranold

Experience and Skills _____

- Lecturer in biomedical engineering at the University of Western Australia.
- Research in applied and computational electromagnetics and medical device development at the Harry Perkins Institute for Medical Research. • Postdoctoral researcher in MR implant safety: Industry-relevant and customized research for implant manufacturers, supervision of PhD stu-
- dents, lead of computational electromagnetics group meetings, contributing to standards development.
- PhD in Electrical Engineering; Multidisciplinary project on the development of a low power RF breast health monitor.
- Extensive understanding of computational and applied electromagnetics, bio-medical engineering, and clinical trials for medical devices.
- Received merit-based STARaCom scholarship for her PhD in Electrical and Computer Engineering at McGill University.
- Received merit-based scholarship for her M.Sc. in Electrical and Computer Engineering from the Stiftung der Deutschen Wirtschaft e.V. (Governmental Foundation of German Businesses).
- Graduated top of the class of the Faculty of Electrical and Computer Engineering from the University of Applied Sciences Kiel, Germany.
- Experienced in working in international and interdisciplinary teams.
- Experienced in conducting clinical trials with a designed and developed medical device prototype.
- Leadership experiences in the academic field as well as in non-profit organizations.
- Professional English language skills, native in the German language, and basic understanding of French.

Work Experience _____

University of Western Australia Harry Perkins Institute of Medical Research	Perth, Australia
 Applied and computational electromagnetics, focused on biomedical applications and medical device development Lecturer in the Biomedical Engineering Course at UWA 	Sep. 2023 - PRESENT
IT'IS Foundation ETH Zurich	Zurich, Switzerland
PostDoctorAL Researcher Applied Medical Electromagnetics • Customized Research • MR implant safety research	Jan. 2021 - Aug. 2023
McGill University, Faculty of Engineering	Montreal, QC, Canada
 RESEARCH ASSISTANT (CONTRACT), RESEARCH AND INNOVATION OFFICE OF THE DEAN Supporting professors in the Faculty of Engineering with research grant applications 	Aug. 2020 - Dec. 2020
• Ensuring that grant applications are complete and ready for submission, guidelines are properly applied, and that infor faculty is accurate	rmation provided to the
Supporting the Associate Dean of Research and Innovation	
McGill University, Department of Electrical and Computer Engineering	Montreal, QC, Canada
PhD Candidate	Jan. 2016 - Dec. 2020
 Development of RF Breast Health Monitoring Prototype Conducting of clinical trials with the wearable breast health monitoring prototype Mentoring of Master's and Bachelor's students 	
McGill University, Department of Electrical and Computer Engineering	Montreal, QC, Canada
Teaching Assistantship	Sep. 2016 - Apr. 2020
 ECSE 352/354: Electromagnetic Waves (TA: Winter 2020, Fall 2018, 2017, 2016, Grading: Winter 2019, Fall 2017) ECSE 405/593: Antennas/Antennas and Propagation (Grading: Winter 2020, 2019, Fall 2016) ECSE 353: Electromagnetic Fields and Waves (TA: Fall 2019, Grading: Fall 2018, 2017) ECSE 251/351: Electromagnetic Fields (TA: Winter 2017) 	
University of Applied Sciences Kiel, Institut for Physics and Fundamentals in Electrical	Kiel Germany
Engineering	Met, Oermany
Teaching Assistantship	Aug. 2012 - Feb. 2015

TEACHING ASSISTANTSHIP

- Teaching Assistant: 4 hours / week; tutorials "Mathematics for Engineers I" for 1st semester and "Statistics" for 3rd semester students Sep. 2013 Feb 2015
- Tutoring and Roberta Scout: Assisting with robotics and programming classes for high school students from grade 7 to 10, and tutoring high school students in mathematics Oct. 2012 - Aug. 2015
- Internship: Setup and improvement of a lab stand for the calibration of shadow detectors for wind turbines Aug. 2012 Nov. 2012

 Supervisor: Prof. Ludger Klinkenbusch Curtin University, Perth, Australia Semester Abroad Feb Jun. 2014 Classes about Power Systems Analysis, Control Systems, Renewable Energy Principles, Aboriginal Studies University of Applied Sciences Kiel Kiel, Germany BACHELOR OF ENGINEERING IN TECHNOLOGY MANAGEMENT AND MARKETING WITH A FOCUS ON RENEWABLE ENERGIES, GPA: 1.8 Sep. 2009 - Apr. 2013 Study Program: Major in Electrical Engineering; Minor in Business Administration Thesis Title: Concept of a 10 MV small wind turbine for the University of Applied Sciences, Kiel. California State Polytechnic University, Pomona, CA, USA Semester Abroad Sep. 2011 - Mar. 2012 Classes about Power System Electronics, Communication and Project Management, Electronic Test Instrumentation with LabView, Global Regenerative Systems. ICS 102 011, Leicester, UK European Lifelong Learning Program Apr. 2011 Organized by the Laurea University of Applied Sciences, Finland, CPA: 1.0 (scale 1.0 to 5.0; 1.0 = high distinction, 4.0 = pass, 5.0 = fail) Theoretical and practical knowledge in Intercultural Communication and Service Innovation & Design Methods, application of acquired skills in a case study with local businesses. Service to Profession Montreal, QC, Canada University of Applied Sciences for Biomedical Applications Holetown, Barbados Vice-CHAIR OF THE SociErv CHAPTER Assisting with organization of IEEE MBS events held in Montreal. Bellairs Workshop on Microwave Imaging and Detection for Biomedical Applications Holetown, Barbados Vice-CHAIR OF THE AFFINITY GROUP Assisting with organization of IEEE Wile events held in Montreal. Stem Workshop on Microwave Imaging and Detection for Biomedical Applications Montreal, QC, Can	engineering.	
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	Heneve and Awards	

- Honors and Awards
- Arthur-Pilla Young Scientist Award: Young scientist award at the 2nd Annual Conference of the BioEM Society 2023
- ISMRM Trainee Stipend: Conference attendance stipend and finalist for ISMRM Safety Study Group poster competition 2022
- STARaCom Scholarship: Merit-based scholarship for the PhD project 2020-2021
- STARaCom Collaborative Grant Supplement: 2018-2020
- McGill University Graduate Student Enhancement and Travel Awards: 2017-2019
- IEEE Award Recognition for the reactivation of the IEEE Engineering in Medicine and Biology Society Chapter: Vice-Chair of the Society Chapter IEEE Engineering in Medicine and Biology - Montreal Section 2019
- McGill Engineering Doctoral Award: Arthur McAlear Fellowship, Gar Lam Yip Memorial Fellowship 2016-2018
- STARaCom Inauguration Graduate Student Poster Competition: 3rd prize award at the student poster competition 2017
- IEEE Award for Special Engagement for the IEEE Day 2018: IEEE Montreal 2018
- IEEE Award for the Most Active Affinity Group: Treasurer of IEEE Women in Engineering Montreal Section 2018
- IEEE Canada Women in Engineering Group of the Year Award: Treasurer of IEEE Women in Engineering Montreal Section 2017
- Stiftung der Deutschen Wirtschaft e.V.: Governmental merit-based scholarship by the Foundation of German Businesses 2013-2015
- Graduate Top of the Class 2013: Faculty of Computer Science and Electrical Engineering 2013

Kiel, Germany Oct. 2013 - Dec. 2015

Montreal, OC, Canada

Jan 2016 - Dec 2020

McGill University

Education

PHD IN ELECTRICAL ENGINEERING

• Laboratory: RF Breast Cancer Detection Group within the Computational Electromagnetics Lab.

• Thesis Title: Time-Domain RF Breast Health Monitoring: Advancements and Optimization of Wearable Prototype for a Clinical Setup PhD thesis defended Oct. 26, 2020; PhD degree completed Dec. 2020; PhD degree granted Feb. 2021

- Research Topics: Development of wearable RF Breast Health Monitor: Applied electromagnetics, antenna design, prototype development, clinical trials, data analysis
- Supervisor: Prof. Milica Popović

Christian-Albrechts-University of Kiel

MASTER OF SCIENCE IN ELECTRICAL AND INFORMATION ENGINEERING, GPA: 1.5

(scale 1.0 to 5.0; 1.0 = high distinction, 4.0 = pass, 5.0 = fail)

• Thesis Title: Spherical-multipole analysis of the wave propagation on a multi-layered dielectric sphere for applications in communication

Extracurricular Leadership

Ontario Collegiate Equestrian Association

East Zone Membership Coordinator

• Tasks: Organization and management of memberships of all East Zone collegiate teams; points tracking throughout the season for individual, team and horse standings; assisting other East Zone executive and teams where necessary; co-organizing the Finals 2020 competition and awards banquet.

McGill Equestrian Team

CAPTAIN AND TEAM REPRESENTATIVE

• Tasks: Organization and management of the team, tryouts, and show entries; coordinating show travels; communicating with the Ontario Collegiate Equestrian Association on behalf of the team; co-hosting the McGill/University of Ottawa horse show competitions.

Pferdesport im Mittelpunkt Nortorf e.V.

SPORTS DIRECTOR

• Tasks: Organization and management of the annual horse show; supervision of the youth show team; organization of clinics.

Pferdesportverband Rendsburg-Eckernfoerde e.V.

Youth Speaker

• Tasks: Organization and management of the annual youth show for the youth development programs; honoring of the regional champions.

Hobbies _

Horseback riding, playing volleyball, reading, learning French, knitting

ON, Canada May 2019 - May 2020

Montreal, QC, Canada

May 2017 - May 2019

Nortorf, Germany Oct. 2005 - Mar 2016

Rendsburg, Germany

Mar. 2007 - Mar 2016

Journal Publications

- Kranold, L., Boparai, J., Fortaleza, L., Popović, M., "Skin Phantoms for Microwave Breast Cancer Detection: A Comparative Study", in IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, doi: 10.1109/JERM.2021.3084126.
- Kranold, L., Popović, M., "RF Radar Breast Health Monitoring: System Evaluation with Post Biopsy Marker", in IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, doi: 10.1109/JERM.2020.3023514.
- Kranold, L., Taherzadeh, M., Nabki, F., Coates, M., Popović, M., "Microwave Breast Screening Prototype: System Miniaturization with IC Pulse Radio", in IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, doi: 10.1109/JERM.2020.3029214.

Conference Publications _

- Kranold, L., Goren, T., Loyd, B., Farcito, S., Kuster, N., "Development of Morbidly Obese Anatomical Phantoms for MR Safety Applications", in Proc. 2nd Annual Meeting of BioEM (former Bioelectromagnetic Society), Oxford, UK, June 18-23, 2023.
- Goren, T., Kranold, L., Reboux, S., Luechinger, R., Samaras, T., Christ, A., Neufeld, E., Kuster, N., "Methods of Translating the RF-Heating in ASTM F2182 Testing to Conservative Assessment of the Temperature Increase in the Patient Population", in Proc. International Society for Magnetic Resonance in Medicine Safety Workshop, New York City, USA, Oct 21-23, 2022.
- Kranold, L., Goren, T., Rajan, S., Kuster, N., "Importance of diverse anatomy in virtual population for risk assessment of magnetic resonance examination", in Proc. 1st Annual Meeting of BioEM (former Bioelectromagnetic Society), Nagoya, Japan, June 19-24, 2022.
- Kranold, L., Capstick, M., Goren, T., Kuster, N., "Tabletop exposure system for assessment of radiofrequency compatibility of medical implants with magnetic resonance examination", in Proc. 1st Annual Meeting of BioEM (former Bioelectromagnetic Society), Nagoya, Japan, June 19-24, 2022.
- Kranold, L., Goren, T., Rajan, S., Kuster, N., "Significance of Population Anatomical Variation for Conservative Assessment of Deposited Power of Leaded Implants", in Proc. International Society for Magnetic Resonance in Medicine Annual Meeting, London, UK, May 6-12, 2022.
- Kranold, L., Capstick, M., Goren, T., Kuster, N., "Novel Compact Dual-Band E-Field Generator for MR Implant Safety Testing of Active Implantable Medical Devices", in Proc. International Society for Magnetic Resonance in Medicine Annual Meeting, London, UK, May 6-12, 2022.
- Kranold, L., Ozmen, M., Coates, M., Popović, M., "Microwave Radar for Breast Health Monitoring: System Performance Protocol", in Proc. IEEE International Microwave Biomedical Conference, Toulouse, France, Dec 14-17, 2020.
- Kranold, L., Boparai, J., Fortaleza, L., Popović, M., "Comparative Study of Tissue-Mimicking Phantoms for Microwave Breast Cancer Screening Systems", in Proc. IEEE International Microwave Biomedical Conference, Toulouse, France, Dec 14-17, 2020.
- Kranold, L., Boparai, J., Fortaleza, L., Popović, M., "A Comparative Study of Skin Phantoms for Microwave Applications", in Proc. 42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society, Montreal, Canada, Jul 20-24, 2020.
 Kendall, W., Kranold, L., Hahn, C., Studebaker, S., Schwartz, J., Popović, M., "A Flexible Antenna Array with Integrated Switching Matrix for
- Kendall, W., Kranold, L., Hahn, C., Studebaker, S., Schwartz, J., Popović, M., "A Flexible Antenna Array with Integrated Switching Matrix for Breast Cancer Detection", in Proc. 42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society, Montreal, Canada, Jul 20-24, 2020.
- Fortaleza, L., Kranold, L., Popović, M., "Flexible 16-Antenna System for Microwave Breast Screening: NB vs. UWB Performance", in Proc. 2020 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, Montreal, Canada, Jul 5-10, 2020.
- Boparai, J., Kranold, L., Fortaleza, L., Popović, M., "Dielectric Properties of Skin-Mimicking Tissue Models in the 5 20 GHz Range", in Proc. 2020 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, Montreal, Canada, Jul 5-10, 2020.
- Kranold, L., Popović, M., "Microwave Radar Breast Screening: System Interaction with the Post-Biopsy Clip", in Proc. 14th European Conference on Antennas and Propagation, Copenhagen, Denmark, Mar 15-20, 2020.
- Kranold, L., Quintyne, C., Coates, M., Popović, M., "Microwave Radar for Breast Screening: Initial Clinical Data with Suspicious-Lesion Patients", in Proc. 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Berlin, Germany, July 23-27, 2019.
- Kranold, L., Quintyne, C., Coates, M., Popović, M., "Clinical Study with Time-Domain Microwave Breast Monitor: Analysis of the System Response and Patient Attributes", in Proc. 13th European Conference on Antennas and Propagation, Krakow, Poland, Mar 29 - Apr. 5, 2019.
- Kranold, L., Coates, M., Popović, M., "Variability in Clinical Data Obtained with Flexible Time-Domain Radiofrequency Breast Monitor", in Proc. 18th International Symposium on Antenna Technology and Applied Electromagnetics, Waterloo, Canada, Aug. 19-22, 2018.
 Kranold, L., Perez Santa Maria, M., Coates, M., Popović, M., "Recent Advancements in Time-Domain Breast Health Screening: Observations
- Kranold, L., Perez Santa Maria, M., Coates, M., Popović, M., "Recent Advancements in Time-Domain Breast Health Screening: Observations on the Phantom Stability and Wearable Hardware", in Proc. 12th European Conference on Antennas and Propagation, London, UK, Apr. 9-13, 2018.
- Kranold, L., Kezzo, M., Popović, M., "Observations on Phantom Stability and Antenna Arrangement for Microwave Tracking of Breast Tissue Changes", in Proc. 32nd International Union of Radio Sciences General Assembly and Scientific Symposium, Montreal, Canada, Aug. 19-26, 2017.
- Kranold, L., Hazarika, P., Popović, M., "Investigation of Antenna Array Configurations for Dispersive Breast Models", in Proc. 11th European Conference on Antennas and Propagation, Paris, France, Mar 19-24, 2017.