

CURRICULUM VITAE

Name and Surname: Emilia Witkowska Nery
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URL for web site: <http://sensorarrays.com.pl/>

EDUCATION

2011 – 2015 PhD in Analytical Chemistry
University of Campinas (UNICAMP), Campinas, Brazil
Thesis: Analysis of samples of clinical and alimentary interest with paper-based devices.
Supervisor: prof. Lauro Tatsuo Kubota

2006 – 2010 BSc and MSc studies in Biotechnology, specialization Microbioanalytics
Warsaw University of Technology, Warsaw, Poland
MSc thesis: Miniaturized tools with potentiometric detection for cell culture applications
Supervisor: prof. Patrycja Ciosek

WORK EXPERIENCE

01.2023 – ongoing Group leader, Sensor Arrays, Institute of Physical Chemistry Polish Academy of Sciences, Poland

09.2015 – 12.2022 Assistant Professor, Charge Transfer Processes in Hydrodynamic Systems group, Institute of Physical Chemistry Polish Academy of Sciences, Poland

05.2019– 10.2022 Chief Technology Officer and Founder Sensoliq Sp.zo.o./Poland/ www.sensoliq.com
2018,2019,2021 visiting scientist EPFL Valais Wallis/École polytechnique fédérale de Lausanne/Sion, Switzerland

2018 – 2018 Erasmus+ laboratory visitor, Oxford Neuroscience/University of Oxford/ Oxford, England

2017 – 2017 Erasmus+ laboratory visitor, Faculty of Chemistry and Chemical Engineering /Chalmers University/Gothenburg, Sweden

02.2011 – 08.2011 Laboratory staff, The Laboratory of Electrochemistry, Electroanalytics and Sensor Development (LEEDS), University of Campinas, UNICAMP, Campinas, Brazil

10.2010 – 12.2010 Trainee, Jiliang University, Faculty of Life Sciences, Hangzhou, China

07.2008 – 09.2008 Trainee, University of São Paulo, Biomedical Science Institute, São Paulo, Brazil

03.2008 – 04.2008 Trainee, Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Genetics Department, Poland

11/2007 – 01.2008 Trainee, Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Laboratory of Antymetabolites, Poland

ORGANISATION OF SCIENTIFIC MEETINGS

2024/09, 2023/06, 2022/09, 2022/06 e-SPARK Summer School on Practical Electrochemistry / Poland
<https://esparkschool.com/>

2024/06 STER Summer School in Redox Processes / Poland

TEACHING ACTIVITIES

2022 – ongoing Lecturer at Summer school on practical electrochemistry eSPARK/Institute of Physical Chemistry/Polish Academy of Sciences/Warsaw, Poland

2022 Lecturer –“ Machine learning/chemometrics –data analysis for scientists using Python”
Institute of Biochemistry and Biophysics, Polish Academy of Sciences/Warsaw, Poland

2020 – 2022 Lecturer – “Machine learning/chemometrics –data analysis for scientists”, Warsaw PhD School in Natural and BioMedical Sciences/Warsaw, Poland

2017 – 2018 Lecturer – “Chemometrics –data analysis for scientists”, International Doctoral Studies/Institute of Physical Chemistry/ Polish Academy of Sciences/Warsaw, Poland

SUPERVISION

BSc theses

- 2019 Daniel Duszak, „Elektrochemia w układach mikroprzepływowych wyposażonych w trójwymiarowe matryce elektrod”, Cardinal Stefan Wyszyński University, Institute of Chemical Sciences
- 2020 Wojciech Mazurkiewicz “Mikroelektrody do pomiaru dopaminy, serotoniny i glutaminianu w hodowlach komórkowych i in vivo”, Warsaw University of Technology, Faculty of Chemical and Process Engineering, supervisor together with prof. Tomasz Ciach

MSc theses

- 2020 Zuzanna Zambrowska, „Badanie warstw ochronnych elektrod umożliwiających długotrwałe pomiary elektrochemiczne w warunkach in vitro.”, Warsaw University of Life Sciences – SGGW, Faculty of Animal Sciences
- 2021 Wojciech Mazurkiewicz, „Analiza elektrochemiczna elektrod z węgla szklatego modyfikowanych materiałami węglowymi pod kątem czułości i selektywności detekcji związków chemicznych o znaczeniu biologicznym”, Warsaw University of Technology, Faculty of Chemical and Process Engineering, supervisor together with prof. Artur Małolepszy

PhD theses

- 2020 Marta Podrażka, „Novel Systems for Ion-Transfer Studies” Institute of Physical Chemistry Polish Academy of Sciences, auxiliary supervisor together with Martin Jönsson-Niedziółka
- 2024 Karthika Kappalakandy Valapil “ITO microelectrodes and microelectrode arrays for the analysis of cell cultures and biomedical applications”, auxiliary supervisor together with Martin Jönsson-Niedziółka

INSTITUTIONAL RESPONSIBILITIES

All positions below are at the Institute of Physical Chemistry/ Polish Academy of Sciences/Warsaw, Poland

- 2022 – ongoing Head of the “Gender Equality Plan” Work group
- 2022 Head of four PhD midterm evaluation boards
- 2021 – 2022 Member of 4 PhD Boards of Examiners
- 2019 – ongoing Member of the HR Excellence in Research Work group
- 2017 – 2022 Member of the Recruitment Commission
- 2017 – 2022 Member of the PhD Studies Commission
- 2016 – 2022 Member of the Scientific Council

REVIEWING ACTIVITIES

- 2021 – Grant Reviewer, Deutsche Forschungsgemeinschaft (German Research Foundation), Germany

Reviewing activity

88 verified reviews (Publons):

- RSC: Analyst, Chemical Communications, New Journal of Chemistry
- Elsevier: Talanta, Journal of Electroanalytical Chemistry, Microchemical Journal, Electrochimica Acta, Biosensors and Bioelectronics, Sensors and Actuators B
- MDPI: Pharmaceutics, Sensors, Materials, Micromachines, Applied Sciences
- Springer: Chemical Papers, Nano-Micro Letters
- ACS: ACS Sensors
- Wiley: Electroanalysis, International Journal of Food Science & Technology

SCHOLARSHIPS AND AWARDS

- 2022,2023,2024 Award in the “Young researchers of Institute of Physical Chemistry Polish Academy of Sciences” competition
- 2020 Award in the Massachusetts Institute of Technology Enterprise Forum CEE startup accelerator program**
- 2019 Foundation for Polish Science (FNP) Start scholarship**
- 2018 Ministry of Science and Higher Education Scholarship for Outstanding Young Scientists**
- 2017 Laureate of Girls go Start up Academy, contest for women working in STEM
- 2017 Finalist of the “Jutronauci” Ticket to the Horizon contest organized by Agora S.A. editorial office
- 2017 Award in the “Young researchers of Institute of Physical Chemistry Polish Academy of Sciences” competition
- 2017 Wyss Center Scholarship covering attendance in NNBE Summer School on Neurophysiology for Neural and Biomedical Engineering, Switzerland
- 2016 Finals of the EU-XCEL competition, Horizon 2020 actions
- 2016 Finalist of the ABB competition, edition 2015/2016
- 2015 Springer Theses award “the best of the best”, international award given for outstanding PhD research**
- 2010 Award in the 20th edition of the Polish Oil & Gas Company (PGNiG SA) Foundation contest

CAREER BREAKS

- 19.05.2012 Birth of the 1st child Raul Witkowski Nery
- 30.01.2014 Birth of the 2nd and 3rd children Jan Witkowski Nery and Dawid Witkowski Nery
- 01.07.2020 Birth of the 4th child Lorena Witkowska Nery

28th of September, 2024

To whom it may concern,

I am a member of ISE since 2013. Since 2015 I have been working at the Institute of Physical Chemistry, Polish Academy of Sciences, where I currently lead a group working on sensor arrays, electroanalysis in complex samples (bioprocesses, cell cultures) and sensor development.

I actively participate in the organisational life of the Institute, being a member of the Scientific Council, the Recruitment Commission and the Ph.D. Studies Commission (2016-2022). I am also a member of the HR Excellence in Research Group, which aims to improve the working conditions in our institution and head of the Gender Equality Plan Workgroup.

As Chair of ISE Division 1, I would like to involve Division members in the preparation of the scientific programmes of the symposia at the annual meetings. I also intend to promote opportunities for Division involvement by supporting local initiatives, especially in places with low ISE membership, such as India. An ISE Regional Student Meeting was held at our Institute in 2020 (online) https://www.ise-online.org/ise-sponsoring/student_meet-reports/2020/GSSAE%20report.pdf. The conference was entirely organised by PhD students with the help of the Regional Representative and gathered more than 60 participants. In my opinion, helping to organise such small student meetings in regions with low ISE involvement could be a starting point for other larger activities.

I hope that my candidature will meet your expectations.

Yours sincerely,
Emilia Witkowska Nery

