Eleni Stavrinidou
Email: eleni.stavrinidou@liu.se
Tel: +46 (0) 700 8962 03
Dept. Science and Technology
Linköping University – Norrköping Campus
60174 – Norrköping, Sweden

# Curriculum Vitae

## Eleni Stavrinidou

***Senior Associate Professor of Bioengineering (Biträdande Professor, Docent)**, Laboratory of Organic Electronics, Department of Science and Technology, Linköping University.*

### Higher Education Qualifications

2010 MSc in Nanotechnology, GPA: *Excellent* 8.9/10, Aristotle University of Thessaloniki
2008 BSc in Physics, GPA: *Very Good* 7.8/10, Top 5%, Aristotle University of Thessaloniki

### Doctoral Degree

2014 PhD in Microelectronics, Ecole Nationale Supérieure des Mines de St.-Étienne, France
Thesis: "Understanding and engineering ion transport in conducting polymers"
Advisor: G. Malliaras, Professor and Head of the Department of Bioelectronics

### Docent Degree

2020 Docent in Applied Physics, Institute of Technology, Linköping University

### Postdoctoral positions

2014 – 2016 Postdoctoral Scholar, Dept. Science and Technology, Linköping University, Advisor Prof. M. Berggren
2014 Research Associate, Dept. Materials, Imperial College, Advisor Prof. M. Stevens

### Current Position

2023 – present: Senior Associate Professor, Dept. of Science and Technology, Linköping University
2021 – present: Associated Group Leader at Umeå Plant Science Center

### Previous positions and periods of appointment

2020 – 2023 Associate Professor, Dept. of Science and Technology, Linköping University
2022 Visiting Professor at University of Cagliari, Italy (1 week)
2017 – 2020 Assistant Professor, Dept. of Science and Technology, Linköping University
2016 – 2017 Principal Research Engineer, Dept. of Science and Technology, Linköping University

### Grants as main applicant

- ERC-Starting Grant, European Research Council, 4D-PhytoHybrid: 1.5 MEuros (2022-2027)
- SSF-FFL 7, Swedish Foundation for Strategic Research - Future Research Leaders: 12 MSEK (2020-2025)
- EU-FET-OPEN 2018-HyPhOE: Coordinator: 3.3 MEuros between 5 partners, LiU share was 1.1MEuros (2018-2021)
- VR- Swedish Research Council Project Grant: 3.6 MSEK (2023-2027)
- Wallenberg Initiative Materials Science for Sustainability - PhD Student Grant, KAW: 3.4MSEK (2023-2026)
- Wallenberg Wood Science Center - PhD Student Grant, KAW: 3.4MSEK (2023-2026)
- AFM 2020 Research Grant, Strategic Research Environment on Advanced Functional Materials (SRA, SFO): 1.5 MSEK (2020-2022)
- AFM 2018 Strategic Grant: Strategic Research Environment on Advanced Functional Materials (SRA, SFO): 1 MSEK (2018-2019)
- VR- Swedish Research Council Starting Grant: 5.2 MSEK (2018-2022)

## Grants as co-applicant

- KAW-Project Grant-FATE. Main Applicant Stephanie Robert (SLU), five co-applicants, 32 MSEK (2022-2026)

## Awards and Fellowships

- Tage Erlander Prize for Natural Sciences and Technology 2023, Topic: Biology, The Royal Swedish Academy of Sciences, 2023, 200 000SEK personal award and 75 000SEK for the organization of a workshop. This prestigious prize is awarded to one researcher under 40 every year in alternating topics.
- Materials Horizons Outstanding Paper Winner 2021 for "Biohybrid plants with electronic roots via in-vivo polymerization of conjugated oligomers", Royal Society of Chemistry, 2021
- Materials Horizons Emerging Investigator, Royal Society of Chemistry, 2021
- L'OREAL-UNESCO For Women in Science Award, Sweden 2019. 150 000 SEK
- Marie Curie Individual Fellowship, H2020-MSCA-IF2015, (2016-2018)
- National Scholarship, EMSE, France (2010-2013)

## Bibliometrics

ResearcherID: I-8526-2016 https://scholar.google.com/citations?user=zcq2oqsAAAAJ&hl=en

- 51 publications with 4611 citations (Google Scholar, November 2023)
- H-index 28 (Google Scholar)

## Research Supervision:

- Leader of Electronic Plants group (established 2018, currently: 5 PhD students, 3 Postdocs)
- PhD students' supervision: 5 PhD students as main supervisor
- Alumni: 2 PhD student as main supervisor, 3 PhD students as co-supervisor, 4 Postdocs as main supervisor and 2 Postdocs as co-supervisor

## Leadership

2020 – present: SSF-FFL7 awardee including extended leadership training
2018 – present: Electronic Plants Research Group Leader, Linköping University
2018 – present: Coordinator of EU-HyPhOE FET-OPEN project
2017 – present: Member of the management team of the Laboratory of Organic Electronics

## Institutional Responsibilities

2023 – present: Member of the Advisory Council of the Doctoral School Forum Scientium, LiU
2022 – present: Member of the Steering Group of the Strategic Research Environment on Advanced Functional Materials, LiU
2021 – present: Member of the Advanced Functional Materials committee for Gender Balance in Materials Science at Linköping University
2021 – present: Associated Group Leader at Umeå Plant Science Center
2019 – present: Electronic Plants (E-Växt) Unit Leader (Enhetschef) Linköping University
2018 – present: Graduate Student Advisor Linköping University
2017 – present: Faculty member, Faculty of Science and Engineering, Linköping University

## International conferences - Invited Talks (selected)

- 2023 MRS Fall, Boston, USA
- 2023 ECME, Bari, Italy

- 2023 F-π15, Raleigh, USA
- 2023 MRS Spring, San Francisco, USA
- 2022 MRS Fall, Boston, USA
- 2022 SPIE Optics and Photonics, San Diego, USA
- 2022 OrbItaly, Italy
- 2022 G.R.C. on Electronic Processes in Organic Materials, Italy
- 2021 PacificChem 2021 (online)
- 2021 MRS Fall 2021(online)
- 2021 APS March meeting (online)
- 2021 MRS Spring (online)
- 2020 SPIE Optics and Photonics San Diego (online)
- 2019 ESP-IUPB World Congress, Spain
- 2018 ICYRAM, Adelaide, Australia
- 2018 Asilomar-Bioelectronics, USA
- 2018 SPIE-Organic Photonics and Electronics, San Diego, USA
- 2018 CIMETC, Perugia-Italy
- 2017 Orbitaly, Cagliari- Italy
- 2017 International Winterschool on Bioelectronics, Austria
- 2016 Gordon Research Seminar on Electronic Processes in Organic Materials, Italy

## Invited Seminars

- National Academies of Sciences, Engineering, and Medicine workshop on Biohybrid Materials and Technologies for Today and Tomorrow, 2023
- NSF Engineering Research Visioning Alliance (ERVA)- visioning event - Leveraging Biology to Power Engineering Impact, 2022
- Yusuf Hamied, Department of Chemistry, University of Cambridge, In-vivo polymerization of conjugated oligomers for plant based biohybrid systems, 2022
- Department of Chemical Engineering and Biotechnology, University of Cambridge, Seminar on In-vivo polymerisation of conjugated oligomers, 2021
- Center for Polymers and Organic Solids, University of California, Santa Barbara, Seminar on Plant bioelectronics and plant biohybrids, 2021
- Centre for Electronics Frontiers Series of Seminars, University of Southampton Webinar on Plant Bioelectronics and Plant biohybrids, 2021
- FORTH - Foundation for Research and Technology - Hellas Webinar on Plant Bioelectronics and Biohybrids, 2021
- KAW 100 Symposium at LiU, 2017

## Organization of scientific meetings

2023 Materials for Sustainable Development Conference (MAT-SUS) 2023 Fall, Lead organizer
2022 nanoGe Spring Meeting 2022, "Fundamentals of organic bioelectronic devices"
2021 nanoGe Spring Meeting 2021, "Unpaired electron materials in organic electronics"
2019 MRS Fall 2019, Boston, USA, Main Symposium organizer for "Smart Materials, Devices and Systems for Interface with Plants and Microorganisms"
2019 ESP-IUPB, Spain, Organizer-Chairwoman of the "Electronic Photosynthesis" session
2019 Winter school on Bioelectronics, BioEl2019, Austria, Co-organiser
2018 Winter school on Bioelectronics, BioEl2018, Austria, Lead Organizer-Chairwoman
2018 Gordon Research Conference on Electronic Processes in Organic Materials, Italy, Discussion leader of Organic Bioelectronics session

## Reviewing / Editorial activities

- 2023- present: Associate Editor, Science Advances
- 2023: Expert reviewer for the European Innovation Council and SMEs Executive Agency (EISMEA) for evaluating the progress of a H2020-FETOPEN project
- 2021: Evaluator for AFM 2021 Project Grants call, Strategic Research Environment on Advanced Functional Materials (SRA, SFO)
- 2021– present: Senior Conference Editor of nanoGe conferences, initiating the organization of conferences, symposiums, and schools with focus on bioelectronics and bioengineering
- 2019 – present: Editorial Board Member: ASC Applied Electronic Materials (2022-), Applied Physics Letters (2020-), ASC Omega (2020-), SN Applied Sciences (2019-)
- 2018 – 2023: PhD thesis examiner: 7 students: University of Graz, University of South Australia, University of Bari, Politechnico di Milano, Tel Aviv University
- 2019 – 2023: PhD thesis committee member: 9 students: Chalmers, Linköping University, Umeå University
- 2020: Evaluator for "Future Technologies for Industrial Bioeconomy: Biohybrid Technologies" call, BMBF Germany
- 2019: Guest editor of special issue on Bioelectronics, Advanced Materials Technologies
- 2019: Evaluator for Helmholtz Young Investigator Groups, Helmholtz Association, Germany
- 2017 – present: Reviewer for Nature Materials, Nature Nanotechnology, Nature Communications, Science (Advances), Advanced (Functional) Materials, Small and others

## Pedagogical merits

- 2019 – present: Course responsible on advanced MSc/PhD course Organic Electronics 2
- 2017 – present: Lecturer for Organic Electronics 1 Master/PhD course: Organic bioelectronics, Applications and market of organic electronics
- 2017 – present: Lecturer for Organic Electronics 2 Master/PhD course: Plant bioelectronics and biohybrids systems, Wood-based functional materials and devices, project work
- 2018 – present: PI within Wallenberg Wood Science Centre Doctoral School
- 2017– present: PI within Forum Scientium Graduate School at LiU
- Higher education pedagogical education: Course on Research Supervision and Course Design and Implementation (6ECTS)

## Networks in Academia

- PI within the Wallenberg Initiative Materials Science for Sustainability (2023-present)
- Member, Research Environment on Advanced Functional Materials, LiU, (2018-present)
- PI within the Wallenberg Wood Science Centre (2018-present)
- Member of the Materials Research Society (2012-present)

## Network with Industry

- Participation in the spin-out group of Laboratory of Organic Electronics, Linköping University. (2022-present)
- Collaboration with LEAD (LEAD.se) for market analysis for our technologies. (2022)
- Several meetings with representatives from the Agriculture industry to discuss potential applications of our technologies (2022-present)
- Member, National Research Network "*Treesearch*" (collaboration platform between academia, industry, and private foundations) (2019-present)
- Participation as LiU Scientist in the meeting with The Forestry Industries Research and Innovation Committee during the day-visit of the committee at LiU (2018)

## Outreach Activities

- Several Interviews in printed and online press in Sweden and worldwide for our work on Electronic Plants (among others New York Times, National Geographic, Ny Teknik, Norrköpings Tidningar Filter Magazinet, Linköpings Posten)
- Participation in childerns book Forskardrömmar published by Swedish Young Academy
- Invited talk at Outreach Event, Rosalind Franklin Conference organized by the Unversity of Cambridge (2021)
- Participation in Linköping University's Library exhibition for the public "Wood is life" with demonstrators of plant bioelectronic devices and interview printed in posters. (2021)
- Participation in Open Day Events in Linköping and Norrköping Campus of LiU, demonstrations and lectures
- Video about the Electronic Plants research for LiU
- Participation in German Pop-Science tv-program Galileo
- Collaboration with industrial designer Mick Geertis that resulted in a video and a booklet related to our research on e-Plants, http://mickgeerits.com/plantbionics.html
- Participation in Vallastaden exhibition in Linköping with demonstrations about the Electronic Plants Research
- Invited talk in X-Festival 2018, a festival where art-science and technology meet, www.x-festival.be

## Major ongoing collaborations

- Prof. Iain McCulloch, Conjugated polymers, University of Oxford, UK
- Dr. Dion Khodagholy, Electrophysiology, Columbia University, USA
- Dr. Claudia Tortiglione, Hydra animal model, CNR, Italy
- Dr. Maria-Rosa Antognazza, Bioelectronic cell stimulation, Italian Institute of Technology
- Dr. Daniele Mantione, Conjugated trimers, POLYMAT Basque Country, Spain
- Prof. Alex Costa, Plants stress responses, University of Milan, Italy
- Dr. Michael Wudick, Plants stress responses, Heinrich Heine University Düsseldorf, Germany
- Prof. Totte Niittylä, Plant cell wall remodelling, Umeå Plant Science Centre, Sweden
- Prof. Torgny Näsholm, Plants nutrients uptake, Umeå Plant Science Centre, Sweden
- Dr. Peter Marhavy, Plants wounding responses, Umeå Plant Science Centre, Sweden
- Prof. Magnus Berggren, Bioelectronics, Linköping University, Sweden
- Prof. Daniel Simon, Bioelectronics, Linköping University, Sweden
- Prof. Igor Zozoulenko, Molecular Dynamics, Linköping University, Sweden