

Curriculum Vitae – Sjon Hartman

Personalialia

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Languages English and Dutch: fluent
French and German: moderate



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Education

- Jan 2020 – **PhD** (*Cum laude*), Utrecht University, The Netherlands.
Dissertation title: ‘The early flooding signal ethylene acclimates plants to survive low-oxygen stress’.
Promoter: Prof. dr. L.A.C.J. Voesenek
- July 2015 – **MSc** Environmental Biology (*Cum laude*, GPA 4.0), Utrecht University, The Netherlands.
Specialization: Research & Plant Biology.
- July 2013 – **BSc** Biology, Utrecht University, The Netherlands.

Research and Scientific Experience

- Jan 2022 – Ongoing: Group leader / junior Professor of Plant Environmental Signalling and Development at the University of Freiburg, Germany.
- Feb 2021 – Ongoing: Board Member of the RoxyCOST ECR “thinktank” programme aiming to train Early Career Researchers affiliated with fruit ripening and ethylene / hypoxia signaling.
- Dec 2020 – Dec 2021: Postdoctoral (Rubicon) Fellow at the Gibbs Lab, University of Birmingham, UK.
- Jan 2020 – Dec 2021: Assistant Features Editor of the scientific journal *Plant Physiology*.
- Sept 2019 – Nov 2020: Postdoctoral Researcher at Plant Ecophysiology, Utrecht University, NL.
- Sept 2015 – Aug 2019: Doctoral Researcher at Plant Ecophysiology, Utrecht University, NL.
- Sept 2014 – Mar 2015: MSc internship at the Holdsworth Lab of School of Biosciences, University of Nottingham, UK.
- Sept 2013 – July 2014: MSc internship at Plant Ecophysiology, Utrecht University, NL.
- Apr 2013 – July 2013: BSc internships at Plant Ecophysiology and Plant Microbe interactions, Utrecht University, NL.

Grants and Scholarships

- Oct 2020: Awarded a **Niels Stensen Fellowship** of **65.084 euro** for a 1-year post doc. This fellowship was not compatible with the Rubicon Grant below and therefore declined.
- Sept 2020: Awarded a prestigious **Rubicon Grant** funded by NWO (Dutch Research Council) to gain postdoctoral research experience abroad and develop a research vision. The personal grant funds **182.168 euro** for a 2 year postdoc in the Gibbs Lab at the University of Birmingham, UK.
- Aug 2015: Awarded the '**EPS Talent Programme Grant**'; a personal scholarship funded by NWO (Dutch Research Council) and the Graduate School for Experimental Plant Sciences (EPS). The personal grant funds **250.000 euro** for a 4 year PhD research project (Grant Number: 831.15.001)
- Sept 2014 - Mar 2015: Erasmus+ Scholarship for abroad research traineeship.

Prizes and Awards

- 2021: **Hugo de Vries** award (5.000 euro) for best Dutch Plant Science PhD Thesis of 2020, awarded by the Royal Dutch Botanical Society and Experimental Plant Sciences.
- 2019: **First prize** for best poster presentation at the European Plant Science Retreat conference, 8-10 July, Nottingham, UK.
- 2017: **First prize** for best poster presentation awarded by EMBO at the "N-term 2017: Proteostasis via the N-terminus" conference, 11-13 September, Halle, Germany.
- 2017: Named one of **most promising young entrepreneurs** of the Netherlands in a special edition of Het Financieel Dagblad (Dutch Financial Times) for promoting and communicating plant science to the general public with the aim to meet global sustainability goals.
- 2016: **First prize** for best poster presentation at the 12th International Society of Plant Anaerobiosis (ISPA) Conference, 5-8 September, Elsinore, Denmark.

Teaching Experience

I taught and supervised in several plant biology and academic skills courses for the academic years 2015-2020 at Utrecht University, NL:

- Guest lectures MSc Plant Biology course (2020-2021) at Radboud University, NL.
- Guest lectures for BSc Biology 3rd year course "Plants, Adaptation and Defence" (2016-2018) at Utrecht University.
- Main supervisor of a total of 2 HBO (5 months), 2 BSc (3 months) and 6 MSc (6-10 months) student internship research projects (2015-2020).
- Tutor/Mentor for ~25 1st year BSc Biology students (2019-2020): personal coach and teacher of general academic skills.
- Teaching assistant of practicals and tutorials for BSc Biology 1st year course "Biology and Ecology of Plants" (2015-2020, 2 years full time, 3 years part-time stand in).
- Supervision of several BSc Biology 3-week project student groups for the BSc Biology 3rd year course "Plants, Adaptation and Defence" (2016 & 2017)

Science Outreach and Communication

I love and have been heavily involved in science communication and outreach, mostly in my personal time and always *pro bono*. I thoroughly enjoy this and believe it is crucial to share the importance of (fundamental) plant science for sustainable global food security with the public. This is illustrated by a selection of the following:

- I have participated in over 15 ScienceBattles, a Dutch theatre show in which PhD students 'battle' by pitching their research. By the end of the show the audience selects the most interesting or convincing talk.
- National Dutch mainstream news and radio appearances: NOS, Het Parool, BNR News Radio (2x), NPO Radio 1 (2x) and Omroep West.
- Presentation and pitch at annual Dutch Science, Communication and Press meeting Bessensap 2016: 'Hoe overstroomde planten hun adem inhouden'
- Participant of Vraag-Maar-Raak-Show at De Klokhuisvragendag (2016-2018) in Science Museum Nemo, Amsterdam. A Dutch television event for children, in which scientists answer questions of children living in the Netherlands.
- Several interviews and contributions to University News, Botanical Gardens, Fascination for Plants day, Vice/Motherboard, Spotify, DUB and Bionieuws.
- I frequently use social media (Twitter and LinkedIn) to share (what I think are) exciting plant science stories with fellow researchers and the public. I am also a manager of the International Society of Plant Anaerobiosis Twitter and Roxycost ECR accounts.

Conferences (+ poster/oral presentation contributions)

International

- 2016: International Society of Plant Anaerobiosis Conference, Elsinore, Denmark (Best poster prize)
- 2017: N-term, Proteostasis via the N-terminus Conference, Halle, Germany (Best poster prize)
- 2019: European Plant Science Retreat, Nottingham, UK (Best poster prize)
- 2019: International Society of Plant Anaerobiosis Conference, Taipei, Taiwan (Invited talk, social media manager)
- 2019: 1st International Society of Protein Termini conference - Seoul, South Korea (Invited speaker + poster)
- 2020: Plant Biology 2020 Worldwide Summit, a digital conference by ASPB (Selected speaker).
- 2021: RoxyCost Annual Meeting, Chania, Crete, Greece (Invited speaker and ECR session organizer)

National (Netherlands)

- 2014 – 2019: ALW meeting: Experimental Plant Sciences, Lunteren (5x poster, 1x talk)
- 2015: 15th International *New Phytologist* workshop on Flooding Biology, Ravenstein (co-organizer)
- 2015 & 2016: Utrecht Plant Science & Industry Symposium, Utrecht (1x invited talk)
- 2015 & 2017: Exp. Plant Science Summer School: Environmental Signaling in Plants, Utrecht (1x selected talk)
- 2015 – 2020: Science for Life Conference, Jaarbeurs Utrecht (3x poster, 2x invited talk)
- 2016 & 2017: Exp. Plant Science Theme 3 day: Metabolism and Adaptation, Amsterdam (1x invited talk)
- 2016 – 2018: Exp. Plant Science PhD Get2Gether, Soest (1x selected talk)
- 2016 – 2019: Institute of Environmental Biology Symposium, Bunnik / Utrecht
- 2018: European Plant Science Retreat, Utrecht, 2018 (1x poster, 1x selected talk)

Lectures & Seminars

International

- 2021: *A Tale of Three Gases: Ethylene, O₂ and NO coordinate Flooding Stress Responses*, hosted by Prof. Malcolm Bennett of University of Nottingham, UK (Invited Seminar).
- 2021: *The Early Flooding Signal Ethylene Acclimates Plants To Survive Low-Oxygen Stress*, hosted by Dr. Chiara Pucciariello, PlantLab, Scuola Superiore Sant'Anna (Invited Seminar).
- 2021: *Ethylene inhibits proteolysis of oxygen-sensing ERF-VII transcription factors and improves hypoxia tolerance*. [Plantae Presents, webinar by ASPB](#) (Invited).
- 2020: *NO Problem: Ethylene-mediated NO depletion acclimates plants to survive hypoxia stress* Plant Biology 2020 Worldwide Summit, a digital conference by ASPB (Selected).
- 2020: *The Early Flooding Signal Ethylene Acclimates Plants To Survive Low-Oxygen Stress*, hosted by Prof. Malcolm Bennett of University of Nottingham, UK (Invited Seminar).
- 2020: *The Early Flooding Signal Ethylene Acclimates Plants To Survive Low-Oxygen Stress*, hosted by Prof. Daniel Gibbs of University of Birmingham, UK (Invited Seminar).
- 2019: *Gas signalling pre-adapts plants to hypoxia stress*. 1st International Society of Protein Termini conference - Seoul, South Korea (Invited)
- 2019: *Gas signalling pre-adapts plants to hypoxia stress*. International Society of Plant Anaerobiosis Conference, Taipei, Taiwan (Invited)
- 2017: *NO problem: ethylene-induced regulation of nitric oxide confers flooding tolerance in plants*. Flash Talk at N-term, Proteostasis via the N-terminus Conference, Halle, Germany. (Selected)

National (Netherlands)

- 2021: *The Early Flooding Signal Ethylene Acclimates Plants To Survive Low-Oxygen Stress*. Hosted by Dr. Ivo Rieu of Radboud University Nijmegen (Invited Guest Lecture for MSc Plant Science Course)
- 2020: *The Early Flooding Signal Ethylene Acclimates Plants To Survive Low-Oxygen Stress*. Science for Life Conference, Jaarbeurs Utrecht (Invited)
- 2020: *The Early Flooding Signal Ethylene Acclimates Plants To Survive Low-Oxygen Stress*. Hosted by Dr. Ivo Rieu of Radboud University Nijmegen (Invited Guest Lecture for MSc Plant Science Course)
- 2019: *The Early Flooding Signal Ethylene Acclimates Plants To Survive Low-Oxygen Stress*. ALW meeting: Experimental Plant Sciences, Lunteren.
- 2019: *Waterproofing crops: Fundamental Plant Science & Agriculture*. Descartes Alumni Lecture Series of Utrecht University (Invited)
- 2018: *NO problem: ethylene-induced regulation of nitric oxide confers flooding tolerance in plants*. European Plant Science Retreat, Utrecht, 2018 (Selected)
- 2018: *NO problem: ethylene-induced regulation of nitric oxide confers flooding tolerance in plants*. Institute of Environmental Biology Symposium, Bunnik (Selected)
- 2018: *Waterproofing crops: Fundamental Plant Science & Agriculture*. Hosted by Plantum, Higher Education Biology Teachers Training Day (Invited)
- 2018: *The N-degron pathway: How gas sensing helps plants to read and respond to their environment*. Hosted by Prof. Ronald Pierik, guest lecture for 3rd year BSc Biology course Plants, Adaptation and Defence of Utrecht University
- 2017: *Ethylene-induced hypoxia tolerance: a novel mechanism for flooding survival in plants*. Experimental Plant Science Summer School: Environmental Signaling in Plants, Utrecht (Selected)
- 2017: *The N-end rule pathway: How gas sensing helps plants to read and respond to their environment*. Hosted by Prof. Ronald Pierik, guest lecture for 3rd year BSc Biology course Plants, Adaptation and Defence of Utrecht University
- 2016: *Waterproofing crops: unravelling the molecular mechanisms that confer flooding tolerance in plants*. Hosted by TKI Uitgangsmaterialen, a Dutch Horticulture meeting with biotech and breeding companies. Nieuwegein (Invited).
- 2016: *The N-end rule pathway: How gas sensing helps plants to read and respond to their environment*. Hosted by Prof. Ronald Pierik, guest lecture for 3rd year BSc Biology course Plants, Adaptation and Defence of Utrecht University
- 2016: *Hoe overstroomde planten hun adem inhouden*. Bessensap, an annual Dutch Science, Communication and Press meeting. (Invited)
- 2016: *Ethylene-induced hypoxia tolerance: a novel mechanism for flooding survival in plants*. Experimental Plant Science Theme 3 Day: Metabolism and Adaptation, Amsterdam (Invited)
- 2015: *Waterproofing crops: unravelling the molecular mechanisms that confer flooding tolerance in plants*. Utrecht Plant Science & Industry Symposium, Utrecht (Invited)
- 2015: *Ethylene-induced hypoxia tolerance: a novel mechanism for flooding survival in plants*. Science for Life Conference, Jaarbeurs Utrecht (Invited)
- 2015-2019: *ScienceBattle*. A Theatre show in which PhD students ‘battle’ each other, making Dutch science accessible and fun for the general public. Directed by Suzanne Streefland and Rene Broeders, Hosted by Dutch Theatres (Invited, 15 times)