Mustafa S. Hamada, PhD

details

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📍 Gothenburg, SE

links

in   github   Google Scholar

languages 🔤

English native
Swedish fluent
Arabic fluent
German skilled

programming 💻

Python, R, C#, .NET, C/C++, PostgreSQL, Git

skills 🧠

DevOps
Agile Methodologies
Product Development
Behaviour-driven design
Software Development
Data analysis
Statistics
Numerical simulations
Experimental design
Publishing
Teaching

💼 experience

2019–Pres. **Software Developer & Agile Lead** — Gothenburg, Sweden
Vitec Appva AB
- **Agile Product Owner** – Key stakeholder & PO for ML product (Appva KVÅ).
- **DevOps/Agile Lead** – Responsible for developing and scaling agile methodologies, DevOps strategies, creating high-performance teams & tackle technical debt.
- **Developer** – Working with system architects and designers to develop new features and maintain core backend system. Overseeing the development of the company's data visualisation & analytical framework.
- **Team Lead** (2019 Jun – Dec) — Managed development team daily operations, processes and backlog.

2011–2017 **PhD Candidate & Post-doctoral Fellow** — Amsterdam, the Netherlands
Netherlands Institute for Neuroscience
- Strong analytical skills and experienced with scientific methodologies, including experimental design, statistical analysis & developing numerical simulations.
- Successfully conducted and published several research projects in high-impact scientific journals.

2013–2016 **Teaching Assistant/Instructor** — Amsterdam, the Netherlands
Amsterdam Graduate School of Neuroscience
- Held training workshops in experimental neuroscience.
- Taught statistical analysis and scientific coding.
- Supervised undergraduate and postgraduate students in conducting thesis research projects.

2015–2017 **Science Editor** — Amsterdam, the Netherlands
Amsterdam Science Magazine
- Reviewed scientific article submissions from researchers affiliated with Dutch academic institutions in Amsterdam.
- Drafted articles and prepared interviews with prominent Dutch researchers to communicate to the public.
- Worked with the graphic design team on the articles layout and maintenance of the magazine on-line content.

2015–2016 **Conference Management Committee** — Amsterdam, the Netherlands
Amsterdam Graduate School of Neurosciences
- Served as a liaison officer coordinating the activities of different sub-committees.
- Held position of treasurer.

2014–2016 **Organizing Committee** — Amsterdam, the Netherlands
Art of Neuroscience
- Recruited sponsors for the event and served as a liaison officer with the press and international scientific organizations.
- Managed digital submissions, organized seminars for international key speakers and recruited creative artists for the jury panel.

2012–2016 **Advisory Board** — Amsterdam, the Netherlands
Amsterdam Graduate School of Neuroscience
- Conducted student surveys, and advised the board on how to improve the academic curriculum for the next admission term.
- Worked on designing and improving academic curriculum, and introduced two new courses in statistics and scientific coding into the curriculum.

2013–2016 **Head of PhD Committee** — Amsterdam, the Netherlands
Netherlands Institute for Neuroscience
- Student advisor to the board of PIs to help improve research environment and organise in-house graduate courses in transferable skills and coding.

🏛 education

2011–2017	PhD – Neuroscience and biophysics	Utrecht University
2009–2010	MPhil – Experimental Neuroscience	University of Cambridge
2005–2009	BSc (Hons) – Pharmacology and Toxicology	University of Aberdeen

🔬 publications

Hamada M. S.*, de Vries S. I., Baayen H., Mansvelder H. & Kole M. H. P. Action Potential Compartmentalization in Human Layer 5 Pyramidal Neurons Axons and Dendrites. In review

Dubey M., Pascual-Garcia M., Helmes K., Wever D. D., **Hamada M. S.**, Jenkins C., Meeuwissen, A. J. M., de Vries S. I., Kushner S. & Kole M. H. P. Myelination strengthens parvalbumin interneuron inhibition and state-dependent network rhythms. In review

Hamada M. S.*, Popovic, M. A. & Kole M. H. P. Loss of Saltation and Presynaptic Action Potential Failure in Demyelinated Axons. **Frontiers in Cellular Neuroscience.** 2017 Feb 27;11:45
🔗 doi:10.3389/fncel.2017.00045

Hamada M. S.*, Goethals S., de Vris S. I., Brett R. & Kole M. H. P. Covariation of Axon Initial Segment Location and Dendritic Tree Normalizes the Somatic Action Potential. **Proceedings of the National Academy of Sciences.** 2016 Dec 20;113(51):14841-14846
🔗 doi:10.1073/pnas.1607548113

Hamada M. S.* & Kole M. H. P. Myelin Loss and Axonal Ion Channel Adaptations Associated with Gray Matter Neuronal Hyperexcitability. **Journal of Neuroscience.** 2015 May 6;35(18):7272-86
🔗 doi:10.1523/jneurosci.4747-14.2015

🏅 awards

2017	Art submission honorary mention (feat. in SciAm)	Art of Neuroscience Competition
2015	Best Ph.D. presentation award	Dutch MS Research Foundation
2013	Research travel grant	UK Marine Biological Association
2012	Research Grant	National Multiple Sclerosis Society (US)
2009	M.Phil. tuition stipend	UK Medical Research Council
2008	Tait Summer Research scholarship	University of Aberdeen
2005	B.Sc. 4–years tuition stipend	Student Award Agency for Scotland
2005	Rotary Award for best high school project	Nyköping Öster Rotary International

✳ certification

2018	Professional Scrum Master 1 (PSM1)	SCRUM.org (ID-369551)

📝 references

Available upon request.