

Dr. Simon Engelke

80802 Munich, Germany | simonengelke@gmail.com

HIGHLIGHTS

Battery research (5+ years & Ph.D.)	Coding experience (Google, Coursera Data Science)
Entrepreneurial experience (15+ years)	Networking skills (GSC, WEF Council, 4 years)
Teaching experience (M. Res., 1 year)	Conferences & Presentations (UK, Japan, Singapore)
International (lived in NL, US, UK)	English (fluent, 10+ years), German (mother tongue)

PROFESSIONAL EXPERIENCE

2020 - **Founder & Chair – Battery Associates, Germany**

- Battery Associates' mission is to create a sustainable world through the power of people, and battery innovation.
- Global network, consultancy and recruitment platform for battery enthusiasts spanning across industries.

2015 - 2019 **Ph.D. Researcher – University of Cambridge, UK**

- Collaborated on electrochemical characterizations across departments (4 joint projects and publications).

2017 - 2018 **Course Coordinator – University of Cambridge, UK**

- Led "Applications of Graphene for Energy Storage" module for the M. Res. in Graphene Technology. Coordinated curriculum and teaching staff, gave three lectures, and conducted three practical sessions.

2014 (3 months) **Developer – Google Open Source Programs Office, USA**

- Carried out Google Summer of Code project with Berkeley Lab and MIT to develop a scientific search engine for battery material syntheses.

2013 - 2014 **Research Assistant – Lawrence Berkeley National Laboratory, USA**

- Initiated project to extract experimental information out of journal publications in collaboration with Dr. K. Persson and Prof G. Ceder, MIT.
- Synthesized a new anode material for sodium-ion batteries and computed its voltage profile in collaboration with Dr. M. Doeff and Prof M. Asta, UC Berkeley. Published in Chemistry of Materials.

EDUCATION

2015 - 2020 **University of Cambridge, UK**
Ph.D. Thesis: Anisotropic battery electrode structures and their characterization with NMR
Advisors: Prof C. P. Grey and Dr. M. De Volder

2014 - 2015 **University of Cambridge, UK**
M. Res. in Graphene Technology (Engineering)
Thesis: Towards a fully flexible Lithium-Ion Battery

2013 **UC Berkeley, USA**
Education Abroad Program (EAP)
Focus: Materials Science & Engineering and Entrepreneurship
Thesis: Rational synthesis of anode materials for sodium-ion batteries and strategies toward automated and collaborative materials development

2011 - 2014 **Maastricht University, Netherlands**
B. Sc. Maastricht Science Programme, cum laude (8.4), 2nd highest degree
Focus: Physics, Chemistry, and Mathematics

OTHER

Languages	German (mother tongue), English (business fluent)
IT skills	Origin Pro, Python, Bootstrap Studio, HTML, Git
Interests	Hiking, traveling, diving, running, fitness

SELECTED AWARDS

- 2018 **Trinity Bradfield Prize** by Chemistry Nobel Prize winner Sir G. Winter
2015 **Young Entrepreneur of the Year** by Cambridge University Entrepreneurs
2014 **Full M. Res. and Ph.D. scholarship** by EPSRC
2012 **Full B. Sc. scholarship** by German Academic Scholarship Foundation

SELECTED FELLOWSHIPS

- 2019 **UK Delegate** EV and Vehicle to Grid (V2G), SF British Consulate General
2018 **Fellow** Council on Energy Technologies, World Economic Forum (WEF)
2018 **Co-Curator** Strategic Intelligence for Future of Energy and Batteries, WEF
2018 **Climate Reality Leader**, The Climate Reality Project

SELECTED PRESENTATIONS AND CONFERENCES

- 2019 **UN Climate Change Conference (COP25), Madrid, Spain**
 - Spoke in panels focussing on the importance of electrifying transport and how to scale-up climate education and training at a global level.
- 2018 **International Meeting on Lithium Batteries, Kyoto, Japan**
 - Presented poster on "3D Pulse Field Gradient NMR measurements of transport in anisotropic materials for energy storage applications".
- 2018 **World Economic Forum (WEF) Annual Meeting, Davos, Switzerland**
 - Selected as one of 50 Global Shapers Community (GSC) delegates (out of community of over 8000).
- 2018 **UNLEASH – Innovation lab for SDGs, Copenhagen, Denmark**
 - Participated in the Energy track and worked on a modular battery pack for rural areas.
- 2016 **Global Young Scientists Summit, Singapore**
 - Selected as one of five Cambridge representatives.
- 2013 **Lindau Nobel Laureate Meeting, Lindau, Germany**
 - Spoke in a panel with Nobel laureates Sir H. Kroto, B. Kobilka, and A. Yonath on "Why Communicate?"

SELECTED PUBLICATIONS

- 2020 B. Graves, S. Engelke, C. Jo, H. G. Baldovi, J. De La Verpilliere, M. De Volder, and A. Boies, Plasma production of nanomaterials for energy storage: Continuous gas-phase synthesis of metal oxide CNT materials: Via a microwave plasma, *Nanoscale*
- 2019 S. Engelke, L. E. Marbella, N. M. Trease, M. De Volder, and C. P. Grey, Three-dimensional pulsed field gradient NMR measurements of self-diffusion in anisotropic materials for energy storage applications, *Physical Chemistry Chemical Physics*
- S. Jessl, D. Copic, S. Engelke, S. Ahmad, and M. De Volder, Hydrothermal Coating of Patterned Carbon Nanotube Forest for Structured Lithium-Ion Battery Electrodes, *Small*
- M. H. Modarres, S. Engelke, C. Jo, D. Seveno, and M. De Volder, Self-Assembly of Hybrid Nanorods for Enhanced Volumetric Performance of Nanoparticles in Li-Ion Batteries, *Nano Letters*