



**Current position**

Postdoctoral Researcher, MPI for Plasma Physics, Greifswald (since 2016)

**Scientific degrees**

PhD in Physics, University of York (2016)

Master of Arts in Physics, University of Wisconsin, Madison, WI (2012)

Bachelor of Science in Physics, Goethe University of Frankfurt/Main (2011)

**Recent research topics**

Stellarator optimization, quasi-axisymmetric stellarator, ideal MHD, non-linear ballooning modes

**Awards, honors, memberships**

EUROfusion Reseacher Grant (2019/2020)

DAAD Fellowship for PhD Students (2013/2014)

Fulbright Fellowship (2011/2012)

**Publications**

- **S. A. Henneberg, M. Drevlak, C. Nührenberg, C. D. Beidler, Y. Turkin**, et al., Properties of a new quasi-axisymmetric configuration, *Nucl. Fusion*. 59, 026014 (2019) [doi:10.1088/1741-4326/aaf604](https://doi.org/10.1088/1741-4326/aaf604)
- **S. A. Henneberg**, S. C. Cowley and H. R. Wilson, Filamentary plasma eruptions: Results using the non-linear ballooning model, *Contrib. Plasm. Phys.* 58, 6, (2018) [doi:10.1002/ctpp.201700047](https://doi.org/10.1002/ctpp.201700047)
- **S. A. Henneberg**, S. C. Cowley, H. R. Wilson, Interacting filamentary eruptions in magnetized plasmas, *Plasma Phys. Contr. F.* 57, 125010 (2015) [doi:10.1088/0741-3335/57/12/125010](https://doi.org/10.1088/0741-3335/57/12/125010)
- S. C. Cowley, B. Cowley, **S. A. Henneberg**, H. R. Wilson, Explosive instability and erupting flux tubes in a magnetized plasma, *P. R. Soc. A.* 471, 2180 (2015) [doi:10.1098/rspa.2014.0913](https://doi.org/10.1098/rspa.2014.0913)