



**Current position**

Research Scientist at the Division “Stellarator Theory”, MPI for Plasma Physics, Greifswald (since 2009)

**Previous position**

Postdoc at the Division “Stellarator Theory”, MPI for Plasma Physics, Greifswald (2005-2009)

**Scientific degree**

PhD in Computational Physics, University of Greifswald (2005)

**Recent research topics**

Gyrokinetic particle-in-cell simulations, stellarator physics, microinstabilities in electron-positron plasmas

**Awards**

Otto Hahn Medal of the Max Planck Society (2006)

**Publications (5 most important)**

- **A. Mishchenko, A. Bottino, A. Biancalani, R. Hatzky, T. Hayward-Schneider**, et al., Pullback scheme implementation in ORB5, *Comp. Phys. Comm.* 238, 194 (2019) [doi:10.1016/j.cpc.2018.12.002](https://doi.org/10.1016/j.cpc.2018.12.002)
- **A. Mishchenko, A. Bottino, R. Hatzky, E. Sonnendrücker, R. Kleiber**, et al., [Mitigation of the cancellation problem in the gyrokinetic particle-in-cell simulations of global electromagnetic modes](#), *Phys. Plasmas* 24, 081206 (2017) [doi:10.1063/1.4997540](https://doi.org/10.1063/1.4997540)
- **A. Mishchenko, A. Könies, R. Kleiber, M. Cole**, [Pullback transformation in gyrokinetic electromagnetic simulations](#), *Phys. Plasmas* 21, 092110 (2014) [doi:10.1063/1.4895501](https://doi.org/10.1063/1.4895501)
- **A. Mishchenko, A. Zocco, P. Helander, A. Könies**, Gyrokinetic stability of electron-positron-ion plasmas, *J. Plasma Phys.* 84, 905840116 (2018) [doi:10.1017/S0022377818000181](https://doi.org/10.1017/S0022377818000181)
- **A. Mishchenko, G. Plunk, P. Helander**, Electrostatic stability of electron-positron plasmas in dipole geometry, *J. Plasma Phys.* 84, 905840201 (2018) [doi:10.1017/S0022377818000193](https://doi.org/10.1017/S0022377818000193)