

Genia Vogman

“Jen-ya”



Graduate Institution: UC Berkeley

Location: Berkeley, CA

Graduate Discipline: Applied Science and Technology Program

Hometown: Olympia, WA

Research Interests:

The use of spectroscopy to measure plasma properties like temperature and density. This involves the deconvolution of emission spectra into their constituent components and quantifying effects such as Doppler broadening and Stark broadening. Measuring such properties allows for a better understanding of plasma confinement and stability properties which dictate the effectiveness of fusion energy technologies.

About me:

Genia Vogman completed her undergraduate work at the University of Washington in Seattle. She received a Bachelor of Science in Aeronautical and Astronautical Engineering, a Bachelor of Arts in Mathematics, and minors in Applied Math and Russian Language. As an undergraduate, Genia worked under the guidance of Professor Uri Shumlak in the ZaP Flow Z-pinch laboratory, which studies sheared flow as a means of mitigating magnetohydrodynamic instabilities. Genia was also a teaching assistant for an introductory course in Applied Math, and interned at the NASA Ames Research Center where she worked on a ground-based means of quantifying the radiative heating experienced by supersonic reentry vehicles.

Genia intends to complete her PhD in Applied Science and Technology Program at UC Berkeley, after which she will pursue a career in academic research. Ms. Vogman is an active member of the American Physical Society and has been involved with the American Institute of Aeronautics and Astronautics. She has presented her research at a number of conferences including the APS Division of Plasma Physics Conference as well as the International Astronautical Congress. Genia's hobbies include watching foreign films, traveling, yoga, tennis, swimming, and salsa dancing.



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