CURRICULUM VITAE: KYLE GWIRTZ

Ph.D. Candidate
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EDUCATION

Scripps Institution of Oceanography	Geophysics	Ph.D.	In Progress
University of Arizona	Applied Mathematics	M.S.	2019
University of Kansas	Mathematics	B.Sc.	2009

AWARDS

NASA Earth and Space Science Fellowship (NESSF)   2018-2021

PUBLICATIONS

K. Gwirtz, M. Morzfeld, A. Fournier, G. Hulot, *Can one use Earth?s magnetic axial dipole field intensity to predict reversals?*, Geophysical Journal International, 225(1), 277-297 (2021).

M. Brio, J.G. Caputo, K. Gwirtz, J. Liu and A. Maimistov, *Scattering of a short electromagnetic pulse from a Lorentz-Duffing film: theoretical and numerical analysis*, Wave Motion, 89, 43-56 (2019).

RESEARCH EXPERIENCE

Graduate Intern, NASA Goddard Space Flight Center   Summer 2018

TALKS & PRESENTATIONS

SIAM-Computational Science and Engineering   Spring 2021
  Title of Talk: Geomagnetic data assimilation for decadal scale forecasts: lessons from a new simplified model

SIAM-Mathematics of Planet Earth   Summer 2020
  Title of Talk: Data assimilation experiments with a reduced-order model of the geodynamo

Scripps Institution of Oceanography, Paleomagnetism Seminar   Summer 2020
  Title of Talk: Can one use Earth's magnetic axial dipole field intensity to predict reversals?

International Union of Geodesy and Geophysics General Assembly   Summer 2019
  Title of Poster: Geomagnetic data assimilation: numerical experiments with a reduced-scale model

American Geophysical Union Fall 2018 Meeting   Fall 2018
  Title of Poster: Localization and bias correction in geomagnetic data assimilation: systematic numerical experiments with reduced-scale models

U2 can UQ, University of Arizona   Spring 2018
  Title of Talk: Geomagnetic data assimilation

RTG workshop, University of Arizona   Fall 2017
  Title of Talk: Invariant densities for maps with noise

RTG workshop, University of Arizona   Spring 2017
  Title of Talk: Thin ferroelectric films