

Chris Nagele PhD: Postdoctoral Fellow

William H. Miller III Department of Physics & Astronomy, The Johns Hopkins University, 3400 N.
Charles Street, Baltimore, MD 21218

+1-2152605570 chrisnagele.astro@gmail.com nagele@g.ecc.u-tokyo.ac.jp

Education

University of Tokyo, Tokyo, JP	PhD candidate in Astronomy: 2021-2024
University of Tokyo, Tokyo, JP	MA in Astronomy: 2019-2021
Haverford College, Haverford, PA	BS in Physics and BA in Astronomy: 2012-2016

Academic Awards

Graduate Research Abroad in Science Program (GRASP): MPI (AEI)	September 2022
MEXT Scholar: University of Tokyo	April 2019 - Present
NYU Shanghai, Recitation Instructor	June 2016- May 2017
KINSC Summer Scholar: University of Exeter	Summer 2015

Selected Research Experience

UTokyo, with Hideyuki Umeda, Koh Takahashi	April 2019-Present
Generative Learning Zeminar, with Tilman Hartwig, John Silverman	April 2020-Present
Research Assistant, Matthew Kleban, New York University	June 2018-February 2023

Skills

Coding: Python, fortran, C, html, mathematica, slurm, git
Physics: General relativity, hydrodynamics, weak reactions, nucleosynthesis, stellar evolution
Analysis: Generative learning (VAE, GAN, diffusion), Bayesian/frequentist statistics, time series
Codes: HOSHI (stellar evolution inc. rotation, magnetism, reactions), nuRADHYD (1D GR hydrodynamics inc. neutrino transport, nuclear network), 2D GR hydrodynamics (inc. neutrino transport, BH excision) GR stability analysis (author, for SMS stability), Autoencoder (analysis of high-dim data, images, light curves etc)

Selected Conference Talks

AAS 242	June 2023
AAS 241	January 2023
EANAM9	September 2022
ngVLA 2022 @ CCA	June 2022
JINA Frontiers 2022 Junior Researchers WS	May 2022