



Name: Brian Wyatt

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Current Position

- Postdoctoral Research Associate in the School of Materials Engineering at Purdue University
 - Primary research: Chemical design and discovery of 2D MXenes and MAX phases for extreme environment applications

Education & Employment History

- Incoming Maria Goeppert Mayer Fellow at Argonne National Laboratory in Fall 2025
- B. Sc. in Mechanical Engineering from Rose-Hulman Institute of Technology (2019)
- PhD in Mechanical Engineering from Purdue University (2024) advised by Dr. Babak Anasori
- National Defense Science & Engineering Graduate (NDSEG) fellow (2021 class)

Honors & Activities

- Recipient of the School of Materials Engineering at Purdue University's Outstanding Postdoctoral Award
- Recipient of the Materials Research Society's (MRS) Arthur Nowick Award (Spring 2024), the MRS Gold Graduate Student Award (Spring 2024), and the Materials Science & Technology (MS&T) Graduate Excellence in Materials Science (GEMS) Sapphire Award (2022)
- Recipient of the Elite 50 Graduate Student award from Indiana University Purdue University Indianapolis (2022)
- Attended the Neutron & X-ray Scattering School (NXS School, 2021) hosted by Argonne National Laboratory and Oak Ridge National Laboratory
- Founder and 3-year president of the Nano Science & Engineering Association (NSEA) at Purdue University in Indianapolis.
- Author of over 37 manuscripts (3200+ citations, h-index of 20) and 2 patents
- Ranked in the top 5% in Materials Science and top 1% of all researchers who first published in 2020 (ResearchGate).

Interests

- Atomic and chemical design of 2D and layered materials (especially MXenes) for extreme and clean energy environments.

- Mentorship and outreach with a focus on inclusion in STEM—mentored over 30 undergraduates, mostly from a range of less-represented social and economic backgrounds
- Organizing outreach-related scientific events and building collaborative communities based on science education

Ideas for Advocacy for the User Community

As a strong advocate for accessible and collaborative research, I aim to support the APS user community by expanding access to DOE user facilities for both early-career researchers and high school students through programs like the Exemplary Student Research Program (ESRP). Building on my experience at the national laboratories and in scientific outreach through my experiences with NSEA, I am particularly interested in helping grow outreach programs, such as the ESRP, to engage more local and younger studies — especially those serving less represented communities. I believe that by fostering early exposure to world-class scientific infrastructure, Argonne can directly serve to broaden participation in STEM and inspire the next generation of scientists and engineers.