

# APSUO - Benedict



## Jason B. Benedict

### Current Position

- Assistant Professor, University at Buffalo

### Background

- Assistant Professor, University at Buffalo, 2011- present
- Research Assistant Professor, University at Buffalo, 2009-2011
- Postdoctoral Associate, University at Buffalo, 2008-2009
- Graduate Research/Teaching Assistant, University of Washington, 2001-2007
- Undergraduate Research Assistant, Arizona State University, 1996-2001

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### Honors

- Ludo Frevel Crystallography Scholarship, International Centre for Diffraction Data, 2005
- George A. Jeffrey Award, Pittsburgh Diffraction Society, 2005
- Outstanding Service Employee Award from the University of Washington, 2004
- Cady Fellowship from the University of Washington, 2002
- Hypercube Award from Arizona State University, 2001

### Activities

- Proposal Review Panel Member, Center for Functional Nanomaterials, Brookhaven National Laboratory, 2012-present
- Vice Chair, Western New York Section, American Chemical Society, 2014-present

### Interests

From novel upconversion laser gain media to stimuli-responsive crystalline nanoporous materials, I have devoted my career to the design and synthesis of novel functional materials. I have also developed cutting-edge diffraction and spectroscopic techniques, including time-resolved and *in situ* guest exchange XRD, in order to develop a molecular-level understanding of the

fundamental physical processes that occur in these exciting new materials. The APS continues to play a critical role in the development of these methods and the growth of my research program.

### **Goals**

As a frequent and established user of the APS (~4 trips per year from 2008-present), I will provide input from the user perspective when considering future developments at the APS.

As a user of other laboratories and DOE-funded facilities, I can provide suggestions for policies and procedures observed at these locations that would enhance the user experience and benefit the APS.