

John-Paul Bacik, Ph.D.

IMCA-CAT

Beamline 17-ID

Advanced Photon Source

Argonne National Laboratory

### **Current Position**

 Macromolecular crystallographer (July 2022 – Present) for the Industrial Macromolecular Industrial Macromolecular Crystallography Association Collaborative Access Team (IMCA-CAT) contributing to beamline operations, data collection and support as a resident user.

#### **Education**

- Ph.D. Macromolecular Crystallography (2008)
   University of Alberta, Department of Medical Microbiology & Immunology, Edmonton, AB
- B.Sc. Hons. Biology (2003)
   University of Winnipeg, Winnipeg, MB

# **Employment History**

- Research Associate (July 2018 June 30, 2022)
   Cornell University, Department of Chemistry & Chemical Biology, Ithaca, NY
- Associate Research Scholar (January 2016 June 2018)
   Princeton University, Department of Chemistry, Princeton, NJ
- Postdoctoral Research Associate (January 2013 December 2015)
   Los Alamos National Laboratory, Bioscience Division, Los Alamos, NM
- Manitoba Health Research Council Postdoctoral Fellow (October 2009 December 2012)
   University of Manitoba, Department of Microbiology, Winnipeg, MB
- Visiting Scientist (May 2008 October 2009)
   Structural Genomics Consortium, University of Toronto, Toronto, ON

#### **Honors & Activities**

• Elected member of the Canadian Light Source Users Executive Committee (3-year term January 2024 – 2027) representing Health & Industry.

- Canadian Light Source Annual Users Meeting (October 25, 2024). Co-chair with Erika Bergen for "Strategic Science: Industrial Applications" virtual session representing Health & Industry.
- Advanced Photon Source Users Meeting (May 6 -10, 2024). Advancing Techniques in Structure-Based Drug Discovery and Development at the IMCA-CAT Beamline (Poster Presentation).
- Argonne National Laboratory Open House (May 20, 2023). IMCA-CAT demonstration on Structure-Based Medicine (Lead organizer and demonstrator).
- Guest Editor for the Journal of Visualized Experiments (JoVE) Methods Collection, "Methods and Innovations in Macromolecular Crystallography" (2022-2023).
- SSRL/LCLS Users Meeting. Invited Panelist for "Metals in Structural Biology" Workshop (2020).
- Project judge for Los Alamos National Laboratory "Championing Scientific Careers" Student Symposium (2015).
- Project judge for the Los Alamos County Science Fair (2014).
- Manitoba Health Research Council Postdoctoral Fellowship Award (2010-2012).
- University of Alberta Provost Doctoral Entrance Award (2003).
- University of Winnipeg Dean's Honour List Student of Highest Distinction Award (2003).

### **Interests**

- Structure-based drug discovery and development.
- Protein crystallography.
- Life sciences.

# **Ideas for Advocacy for the User Community**

- 1. Facilitating user access to APS facilities and promoting training or workshops for all researchers including academic, government, industry and foreign nationals.
- 2. Advocating for APS research in the life sciences that benefit health and well-being through public outreach activities led by users.
- 3. Establishment of a mechanism to promote partnerships between APS beamlines including collaborative agreements for users with successful proposals.
- 4. Establishment of regular seminar series for APS beamline users, researchers and staff involved in life sciences.
- 5. Establishment of quarterly APS user led newsletter highlighting research, user activities, outreach and other contributions.