

Curriculum Vitae

Emina A. Stojković, Ph.D.

Northeastern Illinois University
Department of Biology
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CURRENT POSITION: Bernard J. Brommel Professor

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FIELD OF SPECIALIZATION: Structures of enzymatic photoreceptors determined by x-ray crystallography and cryo-electron microscopy

RESEARCH INTERESTS: Light-driven signal transduction and synthesis of bioactive compounds in soil-dwelling, non-pathogenic myxobacteria

EDUCATION

- ◆ **Postdoctoral Scholar**, The University of Chicago, Chicago, IL. Biochemistry and Molecular Biology 2005-2008. “Bacterial photoreceptors and molecular mechanism of light-driven signal transduction.” Advisor: Professor Keith Moffat.
- ◆ **Ph.D.**, The University of Chicago, Chicago, IL. Biochemistry and Molecular Biology, Ph.D. 2000-2005. **Dissertation:** “Characterization of the coliphage N4-encoded N-acetylmuramidase, a member of a new family of peptidoglycan-hydrolyzing enzymes.” Advisor: Professor Lucia Rothman-Denes.
- ◆ **B.A. Magna Cum Laude**, St. Olaf College, Northfield, MN. Chemistry, 1996-2000. **Honors Thesis:** “Monitoring phospholipase A₂ (PLA₂) activity by reversed-phase, high-pressure liquid chromatography (RP-HPLC).” Advisor: Professor Anne Walter.

PROFESSIONAL POSITIONS AND APPOINTMENTS

- ◆ **Bernard J. Brommel Professor, exceptional in research, Northeastern Illinois University**
Department of Biology, August 2019 - Present.
- ◆ **Associate Chair, Northeastern Illinois University**
Department of Biology, July 2014 - July 2017.
- ◆ **Associate Professor (Bernard J. Brommel Professor with tenure), Northeastern Illinois University**
Department of Biology, September 2014 - August 2019.
- ◆ **Assistant Professor, Northeastern Illinois University**
Department of Biology, September 2008 - August 2014.

HONORS AND AWARDS

- ◆ 2026 Invited Career Mentoring Talk: Successful Grant Applications and Academic Job Hunting: Gordon Research Seminar on Photosensory Receptors and Signal Transduction, Ventura, CA.

- ◆ 2026 Invited Discussion Leader: Novel Insights into Photo-regulated Processes: Gordon Research Conference on Photosensory Receptors and Signal Transduction, Ventura, CA.
- ◆ 2025 Invited Speaker: BioCARS Argonne National Laboratory Seminar: Special Issue of Structural Dynamics in Tribute of Dr. Keith Moffat at the University of Chicago, Chicago, IL.
- ◆ 2024 NIH Study Section Standing Member, Training Workforce Development (TWD-C) - 4-year term.
- ◆ 2024 Faculty Careers Invited Speaker: Postdoctoral Association Symposium at the University of Chicago, Chicago, IL.
- ◆ 2024 Nomination for Conference Co-Chair and Invited Speaker: Gordon Research Conference on Photosensory Receptors and Signal Transduction, Lucca-Barga, Italy.
- ◆ 2024 Invited Speaker: 7th Ringberg Workshop on Structural Biology (with XFELs), participation by invitation only. Max Planck Institute for Medical Research, Heidelberg, Germany.
- ◆ 2023 Invited Career Mentor: Training and Advancement of Careers in Translational Science, University of Illinois at Chicago, Chicago, IL.
- ◆ 2023 Invited Speaker: Symposium in Honor of Distinguished Professor Emeritus Keith Moffat, Department of Biochemistry and Molecular Biology, The University of Chicago, Chicago, IL.
- ◆ 2023 The Structural Dynamics Judith Flippen-Anderson Award in Serial Crystallography: The American Crystallographic Association (ACA) 73rd Annual Meeting, Baltimore, Maryland.
- ◆ 2023 Guest editor: Women in Photobiology - Topical collection for Photochemical and Photobiological Sciences Journal (release date: Spring 2025)
- ◆ 2023 Nomination for the Presidential Award for Excellence in Science Mathematics and Engineering Mentoring (PAESMEM), National Science Foundation in collaboration with the White House.
- ◆ 2022 Co-Chair of Internal Advisory Committee NIH U54 Chicago Cancer Health Equity Collaborative (CHEC) partnership with Northwestern University and University of Illinois-Chicago, IL.
- ◆ 2022 Session Discussion Leader at Gordon Research Conference on Photosensory Receptors and Signal Transduction, Ventura, CA.
- ◆ 2021 Co-Chair of Women in Science Conference - NIH U54 ChicagoCHEC partnership, Northeastern Illinois University, Chicago, IL.
- ◆ 2020 Co-Chair of the BioXFEL 7th Annual Conference, San Juan, Puerto Rico.
- ◆ 2018 Invited Career Mentor at Gordon Research Conference on Photosensory Receptors and Signal Transduction, Lucca-Barga, Italy.
- ◆ 2017 Co-Chair of International Congress on Tetrapyrrole Photoreceptors from Photosynthetic Organisms (ICTPPO), Chicago, IL.
- ◆ 2017 Research Group Profile: Argonne Now Magazine “All-nighters for Science - The Giant Synchrotron at Argonne Never Sleeps” — Argonne National Laboratory Magazine, Spring 2017. <https://www.anl.gov/articles/all-nighters-science>
- ◆ 2016 Invited Presenter: American Society for Microbiology (ASM) Webinar: Writing Successful NSF Grants for Early Investigators.
- ◆ 2015 *Bernard J. Brommel Distinguished Professor for Excellence in Research*, NEIU, Chicago, IL.
- ◆ 2014 Faculty Profiles of Excellence in NEIU’s Promotional Publication (one of eight tenure-track faculty) – Office of the President, Chicago, IL.
- ◆ 2014 Faculty Spotlight: “Teaching is a Two-Way Street”, NEIU’s President’s Annual Report, Office of the President, Chicago, IL.
- ◆ 2012 Faculty Excellence Award in Research. Northeastern Illinois University, Chicago, IL.

PUBLICATIONS (^ AND * INDICATE GRADUATE AND UNDERGRADUATE STUDENT CO-AUTHORS)

36. Karki P, Budell W, Kannachel R, Menendez D[^], Hernandez C, Mendez J, Kanou S[^], Singh M, Slavov C, Schwander P, Malla T, **Stojković EA**, Schmidt M. A bacteriophytochrome Pr/Pfr heterodimer as obtained

- by single-ms TR cryo-EM, Preprint available at Research Square [<https://doi.org/10.21203/rs.3.rs-8079638/v1>], under review in Nature Communications.
35. Shankar MK, Grunewald L, Wahlgren WY, Stucki-Buchli B, Nimmrich A, Kurttila M, Celini A, Maj P, Larasati A, Claesson E, Luo F, Malla TN, Pandey S, Tosha T, Nipawan N, Owada S, Tono K, Tanaka R, **Stojković EA**, Mozorov D, Myllyperkiö P, Takala H, Schmidt M, Ihalainen JA, Westenhoff S. Chromophore photoactivation remote-controls ultrafast protonation reaction in a bacteriophytochrome. *Sci. Adv.* 11(42): eady0499. 2025
 34. Malla TN, **Stojković EA**, Schmidt M. Structures of Myxobacterial Phytochrome Revealed by Cryo-EM. *Methods Mol. Biol.* 2970:233-243. 2025
 33. Malla TN, Aldama L*, Leon V*, Feliz D[^], Hu H, Thomas I*, Cellini A, Wahlgren WY, Nimmrich A, Botha S, Boutet S, Fromme P, Ihalainen J, Weierstall U, Westenhoff S, **Stojković EA**, Schmidt, M. Observation of early events in the photoactivation of myxobacterial phytochrome using time-resolved serial femtosecond crystallography. *Commun. Chem.* 8(1):183. 2025
 32. Kroos L, Wall D, Muñoz-Dorado J, Higgs PI, Singer M, Islam ST, Mauriello EMF, Treuner-Lange A, Søggaard-Andersen L, Kaimer C, Velicer GJ, Elías-Arnanz M, **Stojković EA**, Whitworth DE, Müller R, Volz C, Nan B. Milestones in the development of *Myxococcus xanthus* as a model multicellular bacterium. *J. Bacteriol.* 207 (7): e0007125. 2025
 31. Karki P, Menendez D[^], Budell W, Dangi S, Hernandez C, Mendez J, Muniyappan S, Basu S, Schwander P, Malla TN, **Stojković EA**, Schmidt M. Structures of myxobacterial phytochrome revealed by cryo-EM using Spotiton technique and with X-ray crystallography. *Struct. Dyn.* 12 (3): 034701. 2025 (noteworthy, promoted as Editor's pick on journal cover page).
 30. Malla TN, Muniyappan S, Menendez D[^], Ogukwe F*, Dale AN*, Clayton JD*, Weatherall DD*, Karki P, Dangi S, Mandella V, Pacheco AA, **Stojković EA**, Rose SL, Orleans J, Basu S, de Sanctis D, Schmidt M. Exploiting fourth-generation synchrotron radiation for enzyme and photoreceptor characterization. *IUCrJ.* 12(1):36-48. 2025
 29. Graniczowska KB, Bizhga D[^], Noda M*, Leon V*, Saraf N, Feliz D[^], Sharma G, Nugent AC[^], Singer M, **Stojković EA**. Photomorphogenesis of *Myxococcus macrosporus*: New insights for light-regulation of cell development. *Photochem. Photobiol. Sci.* 23(10):1857-1870. 2024.
 28. Malla TN, Hernandez C, Muniyappan, S, Menendez D[^], Bizhga D[^], Mendez JH, Schwander P, **Stojković EA**, Schmidt M. Photoreception and signaling in bacterial phytochrome revealed by single-particle cryo-EM. *Sci. Adv.* 10 eadq0653. 2024.
 27. Cellini A, Shankar MK, Nimmrich A, Hunt LA, Monroy L, Mutisya J, Furrer A, Beale EV, Carrillo M[^], Malla TN, Maj P, Vrhovac L, Dworkowski F, Cirelli C, Johnson PJM, Ozerov D, **Stojković EA**, Hammarström L, Bacellar C, Standfuss J, Maj M, Schmidt M, Weinert T, Ihalainen JA, Wahlgren WY, Westenhoff S. Directed ultrafast conformational changes accompany electron transfer in a photolyase as resolved by serial crystallography. *Nat. Chem.* 16(4): 624-632. 2024.
 26. Do TN, Menendez D[^], Bizhga D[^], **Stojković EA**, Kennis JTM. Two-photon absorption and photoionization of a bacterial phytochrome. *J. Mol. Biol.* 436(5):168357. 2024.
 25. Schmidt M, **Stojković EA**. Blue and red in the protein world: photoactive yellow protein and phytochromes as revealed by time-resolved crystallography. *Struct. Dyn.* 11(1):014701. 2024.
 24. Malla TN, Zielinski K, Aldama L*, Bajt S, Feliz D[^], Hayes B, Hunter M, Kupitz C, Lisova S, Knoska J, Martin-Garcia JM, Mariani V, Pandey S, Poudyal I, Sierra RG, Tolstikova A, Yefanov O, Yoon CH, Ourmazd A, Fromme P, Schwander P, Barty A, Chapman HN, **Stojković EA**, Batyuk A, Boutet S, and Phillips GN Jr, Pollack L, Schmidt M. Heterogeneity in *M. tuberculosis* β -lactamase inhibition by Sulbactam. *Nat. Commun.* 14(1):5507. 2023.
 23. Schmidt M and **Stojković EA**. "Earliest molecular events of vision revealed." *Nature* 615 (7954):802-803. 2023.
 22. Kraskov A, Buhrke D, Scheerer P, Shaef I, Sanchez JC[^], Carrillo M[^], Noda M*, Feliz D[^], **Stojković EA**, Hildebrandt P. On the role of the conserved histidine at the chromophore isomerization site in phytochromes. *J Phys Chem B.* 125(50):13696-13709. 2021 (featured on journal's cover page).

21. Cellini A, Wahlgren WY, Henry L., Pandey S, Ghosh S, Castillon L, Claesson E, Takala H, Kübel J, Nimmrich A, Kuznetsova V, Nango E, Iwata S, Owada S, **Stojković EA**, Schmidt M, Ihalainen JA, Westenhoff S. The three-dimensional structure of *Drosophila melanogaster* (6-4) photolyase at room temperature. *Acta Crystallogr D. Struct. Biol.* (Pt 8) 1001-1009. 2021.
20. Herman MA, Aiello BR, DeLong JD, Garcia-Ruiz H, González AL, Hwang W, McBeth C, **Stojković E A**, Trakselis MA and Yakoby N. "A unifying framework for understanding biological structures and functions across levels of biological organization." *Integr. Comp. Bio.* 61(6):2038-2047. 2021.
19. Carrillo M[^], Pandey S, Sanchez J[^], Noda M*, Poudyal I, Aldama L*, Malla TN, Claesson E, Wahlgren, WY, Feliz D*, Šrajter V, Maj M, Castillon L, Iwata S, Nango E, Tanaka R, Tanaka T, Fangjia L, Tono K, Owada S, Westenhoff S, **Stojković EA** and Schmidt M. "High-resolution crystal structures of transient intermediates in the phytochrome photocycle." *Structure* 29, 743-754. 2021.
18. Claesson E, Wahlgren W Y, Takala H, Pandey S, Castillon L, Kuznetsova V, Henry L, Carrillo M[^], Panman M, Kubel J, Nanekar R, Isaksson L, Nimmrich A, Cellini A, Morozov D, Maj M, Kurttila M, Bosman R, Nango E, Tanaka R, Tanaka T, Fangjia L, Iwata S, Owada S, Groenhof G, **Stojković EA**, Ihalainen JA, Schmidt M, Westenhoff S. "The primary structural photoresponse of phytochrome proteins captured by a femtosecond X-ray laser." *eLife*. 9: e53514. 2020.
17. Sanchez J[^], Carrillo M[^], Pandey S, Noda M*, Aldama L *, Feliz D*, Claesson E, Wahlgren WY, Tracy GC*, Duong P[^], Nugent A[^], Field A*, Šrajter V, Kupitz C, Iwata S, Nango E, Tanaka R, Tanaka T, Fangjia L, Tono K, Owada S, Westenhoff S, Schmidt M, **Stojković EA**. "High-resolution crystal structures of a myxobacterial phytochrome at cryo and room temperatures." *Struct. Dyn.* 6: 054701. 2019.
16. Woitowich NC[^], Halavaty AS, Waltz P[^], Kupitz C, Valera J*, Tracy GC*, Gallagher KD*, Claesson E, Nakane T, Pandey S, Nelson G, Tanaka R, Nango E, Mizohata E, Owada S, Tono K, Joti Y, Nugent AC[^], Patel H*, Mapara A*, Hopkins J*, Duong P*, Bizhga D*, Kovaleva SE*, St. Peter R*, Hernandez CN, Ozarowski WB[^], Roy-Chowdhuri S, Yang J, Edlund P, Takala J, Ihalainen JA, Brayshaw J, Norwood T, Poudyal I, Fromme P, Spence JCH, Moffat M, Westenhoff S, Schmidt M, **Stojković EA**. Structural basis for light control of cell development revealed by crystal structures of a myxobacterial phytochrome. *IUCrJ* 5 (5): 619-634. 2018.
15. Edlund P, Takala H, Claesson E, Henry L, Dods R, Lehtivuori H, Panman M, Pande K, White T, Nakane T, Berntsson O, Gustavsson E, Båth P, Modi V, Roy-Chowdhury S, Zook J, Berntsen P, Pandey S, Poudyal I, Tenboer J, Kupitz C, Barty A, Fromme P, Koralek JD, Tanaka T, Spence J, Liang M, Hunter MS, Boutet S, Nango E, Moffat K, Groenhof G, Ihalainen J, **Stojković EA**, Schmidt M, Westenhoff S. The room temperature crystal structure of a bacterial phytochrome determined by serial femtosecond crystallography. *Sci. Rep.* 19; 6:35279, 2016.
14. Björling A, Berntsson O, Takala H, Gallagher KD*, Patel H*, Gustavsson E, St Peter R*, Duong P[^], Nugent A[^], Zhang F, Berntsen P, Appio R, Rajkovic I, Lehtivuori H, Panman MR, Hoernke M, Niebling S, Harimoorthy R, Lamparter T, **Stojković EA**, Ihalainen JA, Westenhoff S. Ubiquitous structural signaling in bacterial phytochromes. *J. Phys. Chem. Lett.* 6(17):3379-83. 2015.
13. Yang X, **Stojković EA**, Ozarowski WB, Kuk J, Davydova E* and Moffat K. Light signaling mechanism of two tandem bacteriophytochromes. *Structure* 23(7):1179-89. 2015.
12. Mathes T, Revensbergen J, Kloz M, Gleichmann T, Gallagher KD*, Woitowich NC[^], St. Peter R*, Kovaleva SE*, **Stojković EA** and Kennis JTM. Femto to microsecond photodynamics of an unusual bacteriophytochrome. *J. Phys. Chem. Lett.* 6 (2): 239-243. 2015.
11. Kroeger ME.*, Sorenson BA*, Thomas JS*, **Stojković EA**, Tsonchev S and Nicholson KT. Atomic force microscopy of red-light photoreceptors using peakforce quantitative nanomechanical property mapping. *J. Vis. Exp.* (92): e52164. 2014.
10. **Stojković EA**, Toh KC, Alexandre MT, Baclayon M, Moffat K and Kennis JTM. FTIR spectroscopy revealing light-dependent refolding of the conserved tongue region of bacteriophytochrome. *J. Phys. Chem. Lett.* 5 (15): 2512-2515. 2014.
9. Fixen KR, Baker AW*, **Stojković EA**, Beatty JT, Hardwood CS. Apo-bacteriophytochromes modulate bacterial photosynthesis in response to low light. *Proc. Natl. Acad. Sci. U S A.* 111(2): E237-44. 2013.

8. Neider J, **Stojković EA**, Moffat K, Forest K, Lamparter T, Bittl R, Kennis JTM. Pigment-protein interactions in phytochromes probed by fluorescence line narrowing spectroscopy. *J. Phys. Chem. B* 117(48): 14940-50. 2013.
7. Tobias FG*, Gawedzka A*, Goldmeier MS*, Sakols AC*, **Stojković EA**, Tsonchev S, Nicholson KT. Scanning probe microscopy of bacterial red-light photoreceptors. *MRS Proceedings*, 1465, mrss12-1465-ss07-12. 2012.
6. Woitowich NC[^], Kovaleva SE*, Ozarowski W[^], **Stojković EA**. Preliminary X-ray Crystallographic and Structural Analyses of a Bacteriophytochrome from *Stigmatella aurantiaca*. *FASEB J.* 25:928.15 2011.
5. Toh KC, **Stojković EA**, van Stokkum IH, Moffat K, Kennis JT. Fluorescence quantum yield and photochemistry of bacteriophytochrome constructs. *Phys. Chem. Chem. Phys.* 13 (25): 11985-97. 2011.
4. Toh KC, **Stojković EA**, Rupenyana A, van Stokkum IH, Salumbides M, Groot. M, Moffat K, Kennis JTM. Primary reactions of bacteriophytochrome observed with ultrafast mid-infrared spectroscopy. *J. Phys. Chem. A* 115 (16): 3778-86. 2011.
3. Toh KC, **Stojković EA**, van Stokkum IH, Moffat K, Kennis JTM. Proton transfer and hydrogen bond interactions determine fluorescence quantum yield and photochemical efficiency of bacteriophytochrome. *Proc. Natl. Acad. Sci. USA* 107 (20): 9170-9175. 2010.
2. Yang X*, **Stojković EA***, Kuk J, Moffat K. Crystal structure of the chromophore-binding domain of an unusual bacteriophytochrome, RpBphP3, reveals residues that modulate photoconversion. *Proc. Natl. Acad. Sci. USA* 104 (30): 12571-12576. *authors contributed equally. 2007.
1. **Stojković EA** and Rothman-Dene LB. Coliphage N4 N-acetylmuramidase defines a new family of murein hydrolases. *J. Mol. Biol.* 366 (2): 406-419. 2007.

GRANTS AND RESEARCH AWARDS

1. EXTERNAL GRANTS

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|-----------|--|
| 2024-2027 | NSF Molecular and Cellular Biology (MCB) 2423602: Collaborative Research in Undergraduate Institutions (RUI): Enzyme dynamics on biologically relevant time-scales revealed by single-particle Cryo-EM and X-ray crystallography. Principal Investigator (PI): <i>\$373,168</i> . |
| 2024-2025 | NCI (National Cancer Institute) Administrative Data Science Supplement for Northeastern Illinois University: U54 Chicago Cancer Health Equity Collaborative (CHEC): Enhancing Data Science Capacity at Northeastern Illinois University: Senior Faculty Leader: <i>\$306,150</i> . |
| 2022-2027 | NIH Institutional Research and Academic Career Development Award (IRACDA) K12GM146658: IRACDA at the University of Chicago, Partner Institution Program Coordinator: <i>\$210,976. (terminated July 2025, reinstated September 2025)</i> |
| 2019-2025 | NIH MARC T34 GM105549-02: NU-STARs for Northeastern Illinois Student Training in Academic Research in the Sciences. Co-PI with J. Hibdon, Department of Mathematics and B. Church, Department of Psychology: <i>\$1,281,120. (5 years with 1 year no-cost extension)</i> |
| 2021-2022 | NIH Maximizing Access to Research Careers (MARC) Administrative Supplement for MARC Training Enhancement: Workforce Development at the Interface of Information Sciences, AI/ML, and Biomedical Sciences. Co-PI: <i>\$80,000</i> . |
| 2019-2023 | NSF BioXFEL Science and Technology Center: Z/E Isomerization in Phytochromes from Myxobacteria. PI (BioXFEL subaward 6227): <i>\$310,000</i> . |
| 2018-2020 | NSF MCB EARly-concept Grants for Exploratory Research (EAGER) 1839513: Development of a Genetic System Directing Multicellular Development of Myxococcales. PI: <i>\$150,000</i> . |
| 2014-2019 | NIH MARC T34 GM105549-01: NU-STARs for Northeastern Illinois Student Training in Academic Research in the Sciences. Co-PI with J. Hibdon, Department of Mathematics and B. Church, Department of Psychology: <i>\$1,504,805. (5 years)</i> |
| 2014-2018 | NSF MCB RUI grant 1413360: Light-controlled Morphogenesis in Early Development of Myxobacteria, PI: <i>\$443,050</i> |

- 2015-2016 The American Society for Microbiology (ASM) - NSF Leaders Inspiring Networks and Knowledge (LINK): JumpStart Research Program for Biomedical Students. Co-investigator with G. Cochran, Rochester Institute of Technology: \$5,000.
- 2012-2013 NSF CHE Major Research Instrumentation (MRI) 1229103: Acquisition of Nanoscope V Controller for Scanning Probe Microscopy, Co-PI with K. Nicholson, S. Tsonchev, Department of Chemistry: \$109,661.
- 2010-2011 NIH EARDA pilot 5G11HD049644-04: Structure-based Engineering of an Efficient Infrared (IR) Fluorescent Marker. Principal Investigator: \$20,000.

Pending grant applications:

- 2025 NIH RM1 Collaborative Program Grant for Multidisciplinary Teams (with Arizona State University and University of Wisconsin-Milwaukee): Center for Signaling Dynamics: From Molecules to Cells. Co-PI. \$1,020,896. (review panel November 2025)

2. INTERNAL GRANTS

- 2014 Summer Research Grant (SRG) subaward Title III Department of Education (DOE): Bacteriophytochromes and light-controlled morphogenesis in early development of myxobacteria. PI: \$12,500.
SRG subaward TIII DOE: Scanning tunneling microscopy of red-light photoreceptors (Co-PI with K. Nicholson, S. Tsonchev, Department of Chemistry): \$11,500.
- 2013 SRG subaward by TIII DOE: Engineering infrared fluorescent protein markers for imaging of mammalian cells (CoPI with A. Schirmer, Department of Biology), funded: \$12,500.
SRG subaward by TIII DOE: Imaging fluorescent red-light photoreceptors (Co-PI with K. Nicholson, S. Tsonchev, Department of Chemistry): \$11,500.
- 2012 SRG funded by NEIU Student Center for Science Engagement (SCSE): Sequence and structural analysis of infrared fluorescent markers specific to imaging applications in mammalian cells (Co-PI with A. Schirmer, Department of Biology): \$17,000.
SRG by NEIU SCSE: Environmental response mechanisms of red-light photoreceptors as observed by scanning probe microscopy (Co-PI with K. Nicholson, S. Tsonchev, Department of Chemistry): \$19,000.
- 2009 SRG by NEIU SCSE: The Molecular Mechanism of Phytochrome Photoconversion (PI): \$20,500.

INVITED SEMINARS AND SYMPOSIA

- 2025 **E. A. Stojković** and M. Schmidt. "Structures of Enzymatic Photoreceptor Revealed by cryo-EM". Pacificchem, The International Chemical Congress of Pacific Basin Societies, Honolulu, HI.
- 2025 **E. A. Stojković**. "Photomorphogenesis of Myxobacteria: New Insights for Light Regulation of Cell Development". Microbial Communities Workshop, National Institute for Theory and Mathematics in Biology (NITMB), Chicago, IL (funded by NSF and Simmons Foundation).
- 2025 **E. A. Stojković** and M. Schmidt. "Light Signaling in Bacterial Phytochromes". 75th American Crystallographic Association Annual Conference, Lombard, IL.
- 2025 **E. A. Stojković**. "Structural Basis for Light Control of Cell Development: New Insights from Bacterial Phytochrome Proteins". Department of Biological Sciences, University of Maryland - Baltimore County.
- 2024 **E. A. Stojković** and M. Schmidt. "Light Signaling in Bacterial Phytochrome Revealed by Single Particle Cryo-EM and X-ray Free Electron Lasers (XFELs)". NSF Science and Technology Center STC for Quantitative Cell Biology, University of Illinois, Urbana-Champaign, IL (**virtual seminar**).
- 2024 **E. A. Stojković**, T. N. Malla, D. Menendez and M. Schmidt. "Light Signaling in Bacterial Phytochrome Revealed by Single Particle Cryo-EM and X-ray Free Electron Lasers (XFELs)". 4th Optogenetic and Technologies Conference, Boston University, Boston, MA.

- 2024 **E. A. Stojković** and M. Schmidt. " Photoreception and Signaling in Bacterial Phytochrome Revealed by Single Particle Cryo-EM." 18th International Congress on Photobiology, Perth, Australia (**award-recipient**).
- 2024 M.H. Singer and **E.A. Stojković**. " Fruiting Body Development of Myxobacteria: New Insights towards Light and Nutrient Regulation." 49th International Conference on the Biology of Myxobacteria, Hambach Castle, Germany (**opening talk**).
- 2024 **E. A. Stojković** and M. Schmidt. " Capturing Phytochrome in Action at X-Ray Free Electron Lasers." Gordon Research Conference on Photosensory Receptors and Signal Transduction, Lucca-Barga, Italy.
- 2024 **E. A. Stojković** and M. Schmidt. "Capturing Bacterial Phytochrome in Action." 7th Ringberg Workshop on Structural Biology (with FELs), Ringberg, Germany (**invited by Max Planck Institute**).
- 2023 **E. A. Stojković**, S. Westenhoff and M. Schmidt. "Capturing Bacterial phytochrome in Action at X-ray Free Electron Lasers." Symposium on Structural Dynamics in honor of Dr. Keith Moffat, The University of Chicago, Chicago, IL.
- 2023 M. Schmidt and **E. A. Stojković**. " High-resolution Crystal Structures of Transient Intermediates in the Phytochrome Photocycle." International Phytochrome Workshop. Freie Universität Berlin, Germany.
- 2023 **E. A. Stojković**, S. Westenhoff and M. Schmidt. "Capturing Phytochrome in Action at LCLS." LCLS Users Meeting, Stanford University, Menlo Park, CA.
- 2023 **E. A. Stojković**, S. Westenhoff and M. Schmidt. "High-resolution Crystal Structures of Transient Intermediates in the Phytochrome Photocycle." The American Crystallographic Association 73rd Annual Meeting, Baltimore, Maryland (**award recipient**).
- 2023 **E. A. Stojković**, T.N. Malla, L. Aldama, M. Carrillo, S. Westenhoff, and M. Schmidt. "High-resolution Crystal Structures of Transient Intermediates in the Phytochrome Photocycle. 10th Annual BioXFEL Conference, San Juan, Puerto Rico.
- 2023 **E. A. Stojković**, S. Westenhoff, and M. Schmidt. "High-resolution Crystal Structures of Transient Intermediates in the Phytochrome Photocycle. American Society for Biochemistry and Molecular Biology (ASBMB) Annual Meeting, Seattle, WA (**spotlight talk**).
- 2022 V. Leon, K. B. Graniczkowska, D. Bizhga, M. Noda, M. Singer and **E. A. Stojković**. Photomorphogenesis of *Myxococcus macrosporus*: New Insights Towards Light Regulation of Cell Development. 47th International Conference on the Biology of Myxobacteria, La Manga, Spain.
- 2021 **E. A. Stojković and M. Schmidt**. Structural Basis for Light-Control of Cell Development: New Insights from Bacterial Phytochrome Proteins. 19th Congress of the European Society for Photobiology, Salzburg, Austria (**virtual seminar**).
- 2021 **E. A. Stojković**. Structural Basis for Light-Control of Cell Development: New Insights from Bacterial Phytochrome Proteins. Colloquium lecture in the Collaborative Research Center SFB 1078 - "Protonation dynamics in protein function", Freie Universität Berlin, Germany.
- 2020 **E. A. Stojković, M. Schmidt and S. Westenhoff**. The Primary Structural Response in Bacterial Phytochrome Proteins Captured by XFELs. The 7th BioXFEL Annual Conference, San Juan, Puerto Rico.
- 2019 **E. A. Stojković**. Structural Basis for Light-Control of Cell Development: New Insights from Bacterial Phytochrome Proteins. Department of Chemistry, The University of Wisconsin-Milwaukee, WI.
- 2019 **E. A. Stojković and M. Schmidt**. Myxobacterial phytochromes as light-regulated enzymes suitable for XFEL studies. 5th International Conference on Ultrafast Structural Dynamics, Daejeon, South Korea.
- 2019 **E. A. Stojković**. Structural Basis for Light-Control of Cell Development: New Insights from Bacterial Phytochrome Proteins. Department of Chemistry, SUNY-ESF, Syracuse, NY.
- 2019 **E. A. Stojković and M. Schmidt**. Myxobacterial phytochromes as light-regulated enzymes suitable for XFEL studies. 6th BioXFEL Annual Conference, San Diego, CA.
- 2018 **E. A. Stojković**. Structural Basis for Light Control of Cell Development. Biophysics Journal Club. Northwestern University Feinberg School of Medicine, Chicago, IL.
- 2018 **E. A. Stojković**. Light Control of Cell Development Revealed by Crystal Structures of Myxobacterial Phytochromes. International Phytochrome Workshop – Collaborative Research Center. Freie Universiteit, Berlin, Germany.

- 2018 **E. A. Stojković.** Structural Basis for Light-Control of Cell Development: New Insights from Bacterial Phytochrome Proteins. Department of Biochemistry and Postdoctoral Association, The University of Chicago, Chicago, IL.
- 2018 Mapara, A., D. Feliz, N. Martinez, K.D. Gallagher, R. Guenther, D. Bizhga, J. Varela and **E. A. Stojković.** Photoreceptors in Myxobacteria: Implications for Light-Control of Multicellular Assemblies. 45th International Conference on the Biology of Myxobacteria, Sheffield, England.
- 2018 **E. A. Stojković.** Myxobacterial Phytochromes: Scientific Opportunities at CFELs. Scientific opportunities at ASU Compact X-ray Free Electron Laser Biodesign Institute, Center for Applied Structural Discovery. Arizona State University, Phoenix, AZ.
- 2018 Mapara, A., D. Feliz, N. Martinez, K.D. Gallagher, R. Guenther, D. Bizhga, J. Varela and **E. A. Stojković.** Photoreceptors in Myxobacteria: Implications for Light-Control of Multicellular Assemblies. Gordon Research Conference on Photosensory Receptors and Signal Transduction, Lucca-Barga, Italy.
- 2016 Woitowich, N. C., A. Halavaty, P. Waltz, C. Kupitz, K. D. Gallagher, A.C. Nugent, P. Duong, H. Patel, R. St. Peter, S. E. Kovaleva, W. B. Ozarowski, C. N. Hernandez, J. Ihalainein, K. Moffat, S. Westenhoff, M. Schmidt and **E. A. Stojković.** Structure and Function of Phytochromes in the Photomorphogenic *Stigmatella aurantiaca* Determined at Cryogenic and Ambient Temperatures (**Bernard J. Brommel Research Lecture**), Northeastern Illinois University, Chicago, IL.
- 2016 Halavaty, A., P. Waltz, H. Patel, J. Hopkins, N.C. Woitowich, S. Westenhoff, M. Schmidt and **E. A. Stojković.** Structural Basis for Light Control of Cell Development: New Insights from Bacterial Phytochrome Proteins. Invited Seminar. Department of Physics, University of Parma, Parma, Italy.
- 2016 Gallagher, K. D., H. Patel, J. Hopkins, N.C. Woitowich and **E. A. Stojković.** Phytochromes in Myxobacteria: Implications for Light-Controlled Morphogenesis. International Research Conference on Myxobacteria, Interlaken, Switzerland.
- 2016 Waltz, P., H. Patel, J. Hopkins, N.C. Woitowich and **E. A. Stojković.** Structure and Function of Phytochromes in Photomorphogenic Myxobacteria. Invited Seminar. Departments of Biochemistry and Molecular Genetics, University of Illinois at Chicago, IL.
- 2016 Waltz, P., H. Patel, J. Hopkins, N.C. Woitowich and **E. A. Stojković.** Structure and Function of Phytochromes in Myxobacteria. Invited Seminar. Departments of Microbiology and Biochemistry, University of California-Davis, CA.
- 2016 Halavaty, A., P. Waltz, H. Patel, J. Hopkins, N.C. Woitowich and **E. A. Stojković.** Structure and Function of Phytochromes in *Stigmatella aurantiaca*: Light-Controlled Morphogenesis of Myxobacteria. Gordon Research Conference on Photosensory Receptors and Signal Transduction, Galveston, TX.
- 2015 Gallagher, K.D., Waltz, H. Patel, J. Hopkins, N.C. Woitowich and **E. A. Stojković.** Crystal Structures Bacteriophytochromes from Non-photosynthetic Myxobacteria. Department of Biophysics, Northwestern University, Evanston.
- 2014 Halavaty, A., P. Waltz, H. Patel, J. Hopkins, N.C. Woitowich and **E. A. Stojković.** Crystal Structures of the Complete Photosensory Module of a Bacteriophytochrome in the Pr state. 16th International Congress on Photobiology, Cordoba, Argentina.
- 2014 Gallagher, K.D., D. Bizhga, P. Duong, A. Nugent, H. Patel, N. C. Woitowich and **Stojković, E.A.** Phytochromes and Light-Controlled Morphogenesis of Myxobacteria. Gordon Research Conference on Photosensory Receptors and Signal Transduction, Lucca-Barga, Italy.
- 2013 **Stojković, E.A.** Integrating protein X-ray crystallography into undergraduate teaching and research at an urban comprehensive university. American Crystallographic Association (ACA) Annual Meeting, Honolulu, HI.
- 2012 Gallagher, K.D., H. Patel, N. C. Woitowich, R. St. Peter, S. E. Kovaleva, W. B. Ozarowski, C. N. Hernandez and **Stojković, E.A.** Characterization of a red-light photoreceptor in the life-cycle of myxobacterium *Stigmatella aurantiaca*. NEIU Third Annual Faculty Research Symposium, Chicago, IL.
- 2012 **Stojković, E.A.** Comparative structural analysis of red-light photoreceptors with infrared fluorescent properties. Department of Chemistry, The University of Akron, Akron, OH.

- 2011 Toh, K.C., J.T.M. Kennis, A.W. Baker, C.N. Hernandez, W.B. Ozarowski and **E. A. Stojković**. Specific biliverdin-PHY domain interactions in bacteriophytochromes from *R. palustris*. International Conference on Tetrapyrrole Photoreceptors of Photosynthetic Organisms (ICTPPO 2011). Berlin, Germany.
- 2010 **Stojković, E.A.**, K.C. Toh, J.T.M. Kennis and K. Moffat. Specific chromophore-protein interactions in bacteriophytochromes RpBph2 and RpBph3 from *Rhodospseudomonas palustris*. The 2010 International Chemical Congress of Pacific Basin Societies (Pacifichem 2010). Honolulu, HI.
- 2010 Baker, A.W., N. Woitowich, W. Ozarowski, C.N. Hernandez, K.C. Toh, J.T.M. Kennis and **E. A. Stojković**. Structural and sequence analyses of an infrared fluorescent tissue marker. NEIU First Annual Faculty Research Symposium, Chicago, IL (oral).

Experiments at X-ray Free Electron Lasers (XFELs) 2017-present

- 2024 Hybrid beamtime at SACLA, Japan in collaboration with S. Westenhoff and M. Schmidt (1 graduate student participated).
- 2022 In-person beamtime at European XFEL, Hamburg, Germany in collaboration with S. Westenhoff and M. Schmidt (1 graduate student participated).
- 2022 In-person beamtime at LCLS, Stanford University, Menlo Park, CA in collaboration with M. Schmidt and S. Westenhoff (1 graduate and 2 undergraduate students participated).
- 2021 Remote beamtime at SACLA, Japan (2021A8002) in collaboration with S. Westenhoff and M. Schmidt.
- 2020 Remote beamtime at LCLS, Stanford University, Menlo Park, CA (LU68) in collaboration with M. Schmidt (1 graduate and 2 undergraduate students participated).
- 2019 In-person beamtime at SACLA, Japan (2019A8007) in collaboration with M. Schmidt – Signal transduction in bacteriophytochromes observed by time-resolved serial femtosecond crystallography – successfully determined several nanosecond time points in SaBph2 containing complete photosensory core module at 2.4 Angstrom resolution (2 graduate and 1 undergraduate student participated).
- 2018 In-person beamtime at SACLA, Japan (2018B8008) in collaboration with S. Westenhoff and M. Schmidt: Signal generation in bacteriophytochromes studies by serial femtosecond crystallography – successfully determined several picosecond time points in DrBphP containing chromophore binding domain at 1.8 Å resolution (1 graduate student participated).
- 2017 In-person beamtime at LCLS, Stanford University, Menlo Park, CA in collaboration with M. Schmidt, S. Westenhoff: Signal transduction in bacteriophytochromes observed by time-resolved serial femtosecond crystallography (1 graduate and 1 undergraduate student participated).

COURSES TAUGHT

- BIO 201: General Biology I (core undergraduate course, 24 students); 4 credits (lecture and lab)
- BIO 250: Essential Skills for Biologists (core undergraduate course, 24 students); 2 credits (lecture and lab)
- BIO 307A: Interdisciplinary Research Skills I (upper-level undergraduate course, 6 students); 3 credits (team taught 30%, lecture and lab)
- BIO 308: Interdisciplinary Research Skills II (upper-level undergraduate course, 6 students); 3 credits (team taught 30%, lecture and lab)
- BIO 340: Molecular Biology (upper-level undergraduate course, 24 students); 4 credits (lecture and lab)
- BIO 341: General Microbiology (upper-level undergraduate course, 24 students); 4 credits (lecture and lab)
- BIO 441: General Microbiology for graduate students; cross listed with BIO 341; 4 credits (lecture and lab)
- BIO/CHEM 362: Biochemistry (upper-level undergraduate course, 24 students); 4 credits (lecture and lab)
- BIO/CHEM 372: Biochemistry of Metabolism (upper-level undergraduate course; 10 students); 3 credits (lecture)
- BIO/CHEM 462: Biochemistry for graduate credit; cross-listed with BIO/CHEM 362; 4 credits (lecture and lab)
- BIO/CHEM 472: Biochemistry of Metabolism for graduate credit; cross-listed with BIO/CHEM 372; 3 credits (lecture)
- BIO 447: Current Topics in Cell Biology (graduate course, 7 students); 3 credits (lecture)
- BIO 462: Enzymology (graduate course, 12 students); 4 credits (lecture and lab)

BIO 464: Biochemistry and Molecular Biology Methods (graduate course, 12 students); 4 credits (lecture)

POSTDOCTORAL RESEARCHERS MENTORED

- 2023 - present Dr. Kevin Munoz Forti, NIH IRACDA Postdoctoral Fellow, co-mentored by Dr. Simon Schwörer, Department of Medicine, the University of Chicago, Chicago, IL.
- 2023 - 2025 Dr. Kinga B. Graniczowska, co-mentored by Dr. Mitch Singer, Department of Microbiology, University of California-Davis, CA.
- 2022-2023 Dr. Tek Narsingh Malla, NSF BioXFEL Postdoctoral Fellow, co-mentored by Dr. Marius Schmidt, Department of Physics, University of Wisconsin-Milwaukee, WI. Current position: Research Scientist, Frederick National Laboratory for Cancer Research, Frederick, MD.
- 2021-2023 Dr. Srinivasan Muniyappan, co-mentored by Dr. Marius Schmidt, Department of Physics, University of Wisconsin-Milwaukee, WI. Current position: Postdoctoral Fellow, Korea Advanced Institute of Science and Technology, KAIST, Daejeon, South Korea.
- 2019-2021 Dr. Nykia B. Walker, co-mentored by Dr. Marsha Rosner, Ben May Department for Cancer Research, the University of Chicago, Chicago, IL. Current position: Assistant Professor, Department of Biological Sciences, the University of Maryland - Baltimore County, MD.
- 2010-2012 Dr. Javier Sanchez, NIH IRACDA Postdoctoral Fellow, co-mentored by Dr. Lawrence Henschen, Northwestern University, Evanston, IL. Current position: Senior Scientist, Eisai US, Nutley, NJ.

GRADUATE STUDENTS WHOSE COMMITTEES I HAVE CHAIRED

- 2025 - present Shemiran Kanou (MS candidate, Biology, NEIU)
- 2024 - present Gazal Memdani (MS candidate, Chemistry, NEIU)
- 2022 - present David Menendez (MS candidate, Biology, NEIU)
- 2019-2021 Denisse Feliz (MS, Chemistry, NEIU), Scientist, AbbVie, North Chicago, IL
- 2018-2020 Melissa Carrillo (MS, Biology, NEIU, PhD Paul Scherrer Institute, Switzerland); Senior Scientist, Argonne National Laboratory, Lemont, IL
- 2017-2019 Javier Sanchez (MS, Biology, NEIU, PhD Biophysics, University of Wisconsin- Madison WI); Senior Scientist, Thermo Fisher Scientific
- 2016-2018 Dorina Bizhga (MS, Biology, NEIU), Senior Administrator - NIH Maximizing Access to Research Careers (MARC) T34 grant, NEIU (2015-2025)
- 2014-2017 Patricia Waltz (MS Biology, NEIU, DDS-College of Dental Medicine, Glendale-AZ); Dentist, Alpena, MI (2022-present).
- 2013-2015 Phu T. Duong (MS Biology, NEIU, PhD - University of Wisconsin-Madison), NIH IRACDA Postdoctoral fellow: University of Rochester-Medical Center, Rochester, NY (2021-present)
- 2013-2015 Angela Nugent (MS Biology, NEIU), Instructor in Biology, NEIU (2017-2024)
- 2012-2014 Nicole C. Weitowich (MS Biology, NEIU, PhD Biochemistry - Rosalind Franklin, North Chicago, IL); Executive Director of the Northwestern University Clinical and Translational Sciences Institute, Chicago, IL (2021-present), winner of ASBMB Leadership Award, 2025
- 2009-2014 Wes B. Ozarowski (MS Biology, NEIU); Instructor in Biology, Oakton Community College, Des Plaines, IL (2022-present)

GRADUATE STUDENTS ON WHOSE COMMITTEES I HAVE SERVED

- 2023-present Prabin Karki (PhD candidate, Physics, University of Wisconsin-Milwaukee)
- 2023-2024 Mehraj Begum (MS, Chemistry, NEIU)
- 2023-2024 Ashish Solanki (MS, Chemistry, NEIU)
- 2019-2023 Tek Narsingh Malla (PhD, Physics, University of Wisconsin-Milwaukee)
- 2016-2021 Suraj Pandey (PhD, Physics, University of Wisconsin-Milwaukee)
- 2008-2010 Toh Kee Chua (PhD, Physics, Vrije Universiteit-Amsterdam, Netherlands)

UNDERGRADUATES MENTORED IN RESEARCH

- 2025 - present Samira Rezai (started as 1st year undergraduate student)
- 2025 - present Miguel Alvarado, NIH MARC scholar (veteran), Rhodes Scholar Finalist, November 2025
- 2022 - present Sorayya Rezai, NIH MARC scholar and Honors Program scholar
- 2022 - 2025 Nathaniel Santiago, NIH MARC scholar, McNair scholar and Honors Program scholar
- 2022 - 2025 Dominique Weatherall, Independent research
- 2021 - 2024 Favour Ogukwe, Honors Program scholar
- 2021 - 2023 Isaiah Thomas, NIH MARC scholar, 2nd year PhD Candidate - Biophysics, The University of Chicago, Chicago, IL (NSF Graduate Research Fellowship Program Honorable Mention)
- 2020 - 2023 Christian Torres, NIH MARC scholar, 1st year PhD Student, Developmental Biology, University of California-Davis, CA
- 2020 - 2022 Viridiana Leon, Independent research, 3rd year PhD Candidate-Biophysics, Northwestern University, Evanston, IL
- 2018 - 2021 Luis Aldama, NIH MARC scholar - 4th year PhD Candidate - Biophysics, Harvard University, Boston, MA (NSF Graduate Research Fellowship Program Awardee)
- 2017 - 2020 Moraima Noda, NIH MARC scholar - 5th year PhD Candidate - Microbiology, Indiana University, Bloomington, IN
- 2016 - 2018 Gregory Tracy, Independent Research, PhD Biochemistry 2023, University of Illinois-Urbana Champaign, IL
- 2015 - 2017 Denisse Feliz, Independent research, MS Chemistry 2021, NEIU
- 2016 - 2017 Ayesha Mapara, Honors Program scholar
- 2014 - 2016 Rima Rebiai, NIH MARC scholar, PhD Biology 2022, University of Illinois-Chicago, IL
- 2014 - 2016 Leslie Carrillo, NIH MARC scholar, 5th year PhD Candidate - Biology, University of Illinois-Chicago, IL
- 2014 - 2016 Robert Fidis, NIH MARC scholar, MS Biochemistry, Michigan State University, Lansing, MI
- 2013 - 2015 Joseph Varela, NIH MARC scholar, DVM 2024, University of Wisconsin-Madison, WI
- 2012 - 2015 Kevin Gallagher, Independent research, PhD Biophysics 2022, Northwestern University, Evanston, IL
- 2012 - 2015 Nima Missaghian, Independent research, DMD 2021, University of Pennsylvania School of Medicine, Philadelphia, PA
- 2012 - 2015 Patricia Waltz, Independent research, DDS 2022, Midwestern University, Glendale, AZ
- 2012 - 2014 James Hopkins, McNair scholar, PhD Pharmacology 2021, University of Illinois-Chicago, IL
- 2011 - 2013 Sarah M. Vorpahl, McNair scholar, PhD Chemistry 2017, University of Washington-Seattle, WA (AAAS Congressional Science and Engineering Fellow - 2017-2018)
- 2011 - 2013 Angela Varela, Independent research, PhD Biophysics 2020, University of Wisconsin-Madison, WI (NSF Graduate Research Fellow)
- 2010 - 2012 Christopher Craddock, McNair scholar, PhD Molecular Genetics and Cell Biology 2021, The University of Chicago, Chicago, IL (NSF Graduate Research Fellow)
- 2010 - 2013 Daniel Westcott, McNair scholar, PhD Plant Biology 2022, University of California-Berkeley, CA (NSF Graduate Research Fellow)
- 2010 - 2012 Svetlana Kovaleva, Honors Program scholar, DO 2018, Kansas City University of Medicine and Sciences, Kansas City, MO
- 2009 - 2011 Rachael St. Peter, Honors Program scholar, DPM 2017, New York University, NY
- 2008 - 2010 Anna Baker, PhD Microbiology 2016, University of Wisconsin-Madison, WI (NSF Graduate Research Fellow)

VISITING SCIENTISTS

- 2026 Dr. Mitch Singer, Professor in Department of Microbiology, University of California-Davis, CA (Sabbatical, Spring Semester).

2017 Dr. Marius Schmidt, Professor in Department of Physics, University of Wisconsin-Milwaukee, WI (Sabbatical, Spring Semester).

PROFESSIONAL SOCIETIES

American Society for Biochemistry and Molecular Biology (ASBMB), American Society for Microbiology (ASM), American Crystallographic Association (ACA)

PROFESSIONAL SERVICE

Editorships and Editorial Boards:

2023-present Guest Editor: Photochemical & Photobiological Sciences Journal - Topical Collection: Women in Photobiology

Promotion and tenure external evaluations:

Promotion to Associate with tenure: 2 evaluations

Promotion to Full: 1 evaluation

Grant review panels:

2025-present NSF Molecular Cell Biology panelist

2024-2025 NIH Training Workforce Development (TWD-C) - standing member

2022-2023 NIH Training Workforce Development (TWD-C) - temporary panelist

2016-2021 NSF Molecular Cell Biology Cellular Dynamics and Function (CDF) panelist

Grants reviewed (not including grants reviewed as a panel member):

German Research Foundation (3), French Research Foundation (1)

Journal articles reviewed:

Nature (1), Nature Communications (2), Photochemical and Photobiological Sciences (4), Science Advances (2), Journal of Molecular Biology (2), Biochemistry (2), Nanoscale (1), Acta Crystallographica D (1), Proceedings of National Academy of Sciences (1), FEMS Microbiology Letters (1)

Books reviewed:

Dynamics and Kinetics in Structural Biology: Unravelling Function Through Time Resolved Structural Analysis by Eatton E. Lattman and Keith Moffat, Wiley Publishing Nov. 2023

COLLEGE AND UNIVERSITY SERVICE

2024 - present External member of the Department Personnel Committee for Chemistry

2022 - present Co-chair of Internal Advisory Board for NIH-funded ChicagoCHEC (Cancer Health Equity Collaborative) U54 partnership between NEIU, Northwestern University and University of Illinois-Chicago

2021 - 2024 Founding Director of STEM Living and Learning Community (LLC) at the NEST Residence Hall for 24 undergraduate students (freshmen to senior) receiving 50-100% housing scholarship

2020 External member of the Department Personnel Committee for Physics

2019 External member of the Department Personnel Committee for Earth Science

2019 Member of the Search Committee for the Interim Dean of the College of Arts and Sciences

2018 Member of the Search Committee for the University Provost

2013 Member of the Search Committee for the tenure-track Assistant Professor in Chemistry

2012 Member of the Search Committee for the Dean of the College for Graduate Studies and Research

2011 Member of the Search Committee for the tenure-track Assistant Professor in Earth Science

- 2009 - 2012 External Member of the Faculty Search Committee for College of Education
 2009 - present Member of the University Honors Program (UHP) Board

DEPARTMENTAL SERVICE

- 2022 - present Member of the Department Research and Resource Subcommittee
 2021 - 2022 Department Coordinator with Chemistry and University Honors Program to Build Department's Accelerated Dual Degree Program
 2021 - 2024 Chair of the Department Personnel Committee
 2019 - 2020 Coordinator of the Program for Biochemistry Concentration
 2018 - 2021 Chair of the Department Research and Resource Subcommittee
 2014 - 2017 Associate Department Chair
 2014 Chair of the Search Committee for the tenure-track Assistant Professor
 2012 Chair of the Search Committee for the tenure-track Assistant Professor
 2009 - 2011 Member of the Search Committee for the tenure-track Assistant Professor
 2009 - 2019 Organizer of the Celebration for Graduating Students (undergraduate and graduate)
 2008 - present Department Representative at Open Houses for prospective students
 2008 - present Member of the Department Personnel Committee

OUTREACH

- 2025 Annual Biomedical Research Conference for Minoritized Students (ABRCMS), San Antonio, TX, Undergraduate Student Presentations Judge
 2025 American Society for Biochemistry and Molecular Biology (ASBMB) Annual Conference, Chicago, IL - Undergraduate Student Presentations Judge and Organizer for 10 NEIU students to attend the conference
 2024 Career Faculty Panel - Postdoctoral Association Symposium at the University of Chicago, Chicago, IL
 2024 Faculty Career Teaching and Research - Invited Seminar by the University of Illinois-Chicago K-12 IRACDA (Institutional Research and Academic Career Development Award) for postdoctoral scholars
 2023-2024 Summer Research Seminar to the NIH-funded ChicagoCHEC (Cancer Health Equity Collaborative) Undergraduate Research Interns, Chicago, IL
 2023 Your Future in Science - Faculty Career Panelist for the University of Illinois-Chicago for graduate students and postdoctoral scholars
 2023 ASBMB Annual Conference, Seattle, WA - Undergraduate Student Presentations Judge
 2021 ABRCMS - Live Mentor for Undergraduate Students (virtual conference)
 2020 - 2021 Introducing K-12 Teaching Modules by Biochemistry and Molecular Biology Students at NEIU to Chicago Public Schools - combination of virtual and in-person lectures by a team of undergraduate students in K-12 classrooms
 2019 Career Faculty Panel - Postdoctoral Association Symposium at the University of Chicago, Chicago, IL
 2016 ASBMB Annual Conference, Chicago, IL - Student Presentations Judge and Organizer for 20 NEIU undergraduate students to attend the conference and 5 to present their research projects
 2015 Organizer of the Science Workshop for Elementary School: Introduction to Research by NEIU undergraduates for 2nd and 4th graders at O.A. Thorp Chicago Public School
 2014 - Present ABRCMS Annual Conference - Student Presentations Judge in the area of Biochemistry
 2014 - 2025 MyCHOICE Program at the University of Chicago - Alumni Career Mentor for graduate students and postdoctoral researchers
 2014 - 2015 Preparing for Futures - Faculty Workshop Organizer for Middle School Girls, Oakton Community College, Center for Promoting STEM, Des Plaines, IL