

**IDENTIFYING INFORMATION:**

NAME: Mendez, Derek A

POSITION TITLE: Staff Scientist

PRIMARY ORGANIZATION AND LOCATION: Stanford Linear Accelerator Lab, Menlo Park, California, United States

**Professional Preparation:**

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
Arizona State University, Tempe, Arizona, United States	Postdoctoral Fellow	03/2017 - 10/2018	Physics
Stanford University, Stanford, California, United States	PHD	03/2017	Applied Physics
University of Texas at San Antonio, San Antonio, Texas, United States	BS	05/2010	Physics

**Appointments and Positions**

2024 - present	Staff Scientist, Stanford Linear Accelerator Lab, Menlo Park, California, United States
2021 - 2024	Project Scientist, Stanford Linear Accelerator Lab, Menlo Park, California, United States
2018 - 2021	Project Scientist, Lawrence Berkeley National Lab, Berkeley, California, United States
2015 - 2015	Database Manager, Insitute for Pacific Island Forestry, Hilo, Hawaii, United States
2014 - 2015	Private Tutor, Cardinal Scholars, Stanford, California, United States
2008 - 2010	Research Assistant, University of Texas at San Antonio, San Antonio, Texas, United States
2007 - 2008	Teaching Assistant Engineer Physics, University of Texas at San Antonio, San Antonio, Texas, United States
2006 - 2008	Supplemental Instructor (Physics and Economics), University of Texas at San Antonio, San Antonio, Texas, United States

**Products****Products Most Closely Related to the Proposed Project**

- Mendez D, Holton JM, Lyubimov AY, Hollatz S, Mathews II, Cichosz A, Martirosyan V, Zeng T, Stofer R, Liu R, Song J, McPhillips S, Soltis M, Cohen AE. Deep residual networks for crystallography trained on synthetic data. Acta Crystallogr D Struct Biol. 2024 Jan 1;80(Pt 1):26-43. PubMed Central PMCID: [PMC10833344](https://pubmed.ncbi.nlm.nih.gov/PMC10833344/).
- Blaschke JP, Brewster AS, Paley DW, Mendez D, Bhowmick A, Sauter NK, Kröger W, Shankar M, Enders B, Bard D. Real-Time XFEL Data Analysis at SLAC and NERSC: a Trial Run of Nascent Exascale Experimental Data Analysis. ArXiv. 2024 Jan 1; PubMed Central PMCID: [PMC8240685](https://pubmed.ncbi.nlm.nih.gov/PMC8240685/).
- Mendez D, Bolotovskiy R, Bhowmick A, Brewster AS, Kern J, Yano J, Holton JM, Sauter NK.

Beyond integration: modeling every pixel to obtain better structure factors from stills. IUCrJ. 2020 Nov 1;7(Pt 6):1151-1167. PubMed Central PMCID: [PMC7642780](#).

*Other Significant Products, Whether or Not Related to the Proposed Project*

1. Schriber EA, Paley DW, Bolotovskiy R, Rosenberg DJ, Sierra RG, Aquila A, Mendez D, Poitevin F, Blaschke JP, Bhowmick A, Kelly RP, Hunter M, Hayes B, Popple DC, Yeung M, Pareja-Rivera C, Lisova S, Tono K, Sugahara M, Owada S, Kuykendall T, Yao K, Schuck PJ, Solis-Ibarra D, Sauter NK, Brewster AS, Hohman JN. Chemical crystallography by serial femtosecond X-ray diffraction. Nature. 2022 Jan;601(7893):360-365. PubMed Central PMCID: [PMC8770144](#).
2. Mendez D, Lane TJ, Sung J, Sellberg J, Levard C, Watkins H, Cohen AE, Soltis M, Sutton S, Spudich J, Pande V, Ratner D, Doniach S. Observation of correlated X-ray scattering at atomic resolution. Philos Trans R Soc Lond B Biol Sci. 2014 Jul 17;369(1647):20130315. PubMed Central PMCID: [PMC4052857](#).
3. Mendez D, Watkins H, Qiao S, Raines KS, Lane TJ, Schenk G, Nelson G, Subramanian G, Tono K, Joti Y, Yabashi M, Ratner D, Doniach S. Angular correlations of photons from solution diffraction at a free-electron laser encode molecular structure. IUCrJ. 2016 Nov 1;3(Pt 6):420-429. PubMed Central PMCID: [PMC5094444](#).
4. Martin-Garcia JM, Zhu L, Mendez D, Lee MY, Chun E, Li C, Hu H, Subramanian G, Kissick D, Ogata C, Henning R, Ishchenko A, Dobson Z, Zhang S, Weierstall U, Spence JCH, Fromme P, Zatsepin NA, Fischetti RF, Cherezov V, Liu W. High-viscosity injector-based pink-beam serial crystallography of microcrystals at a synchrotron radiation source. IUCrJ. 2019 May 1;6(Pt 3):412-425. PubMed Central PMCID: [PMC6503920](#).

**Certification:**

I certify that the information provided is current, accurate, and complete. This includes but is not limited to current, pending, and other support (both foreign and domestic) as defined in 42 U.S.C. § 6605.

I also certify that, at the time of submission, I am not a party to a malign foreign talent recruitment program.

Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Mendez, Derek A in SciENcv on 2024-07-03 09:21:03