

Papa Kobina Van Dyck

kobbyvandyck.github.io
pvandyc2@nd.edu
+1 (678) 908-7486

RESEARCH INTERESTS	<i>Biophysics, Protein Structure and Dynamics, Bioinformatics and Computational Biology, Optical and Fluorescence Microscopy, and Cell Biology</i>	
EDUCATION	University of Notre Dame (IN) , <i>Doctor of Philosophy Biophysics</i> Advisor: Katharine A. White Research: <i>Determining pH-dependent functions of ionizable residue networks</i>	08/2020 -
	DePauw University (IN) , <i>Bachelor of Arts Cell and Molecular Biology Minors in Statistics and Physics</i> Advisor: Pascal Lafontant Research: <i>Cauterization as a simple method for regeneration studies in the zebrafish heart</i>	08/2016 - 05/2020
RELEVANT RESEARCH	pH Sensitive Proteins and Cell Behaviors Advisor: Katharine A. White - University of Notre Dame (IN)	05/2021 -
	Cardiovascular Regeneration Studies in the Zebrafish Advisor: Pascal Lafontant - DePauw University (IN)	08/2017 - 05/2020
	Cellular Environment Effects on Protein Stability and Dynamics Advisor: Emily J. Guinn - DePauw University (IN)	08/2018 - 12/2019
	Neuroimaging Data Science Advisor: Joshua Vogelstein - Johns Hopkins University (MD)	05/2018 - 08/2018
PUBLICATIONS	[1] Papa Kobina Van Dyck , <i>Natasha Hockaden, Emma C Nelson, Alyssa R Koch, Kamil L Hester, Neil Pillai, Gabrielle C Coffing, Alan R Burns, Pascal J Lafontant. Cauterization as a simple method for regeneration studies in the zebrafish heart Journal of cardiovascular development and disease 7 (4), 41</i>	
CONFERENCE TALKS & POSTER PRESENTATIONS	[1] Characterizing pH Molecular Mechanisms of Networks of Ionizable Residues <i>Biophysical Society Annual Meeting 2022- Poster</i>	2/2022
	[2] Characterizing pH Molecular Mechanisms of Networks of Ionizable Residues <i>AfroBiotech 2021- Poster</i>	10/2021

- [3] **Characterizing pH Molecular Mechanisms of Networks of Ionizable Residues**
25th Annual John V. O'Connor Biochemistry and IBMS Research and Education Conference- Poster 10/2021
- [4] **Belonging and Optics of DePauw University's STEM Departments**
HSTEM 2021 NSF Conference- Talk and Poster 6/2021
- [5] **Examination of the effect of a Histidine tag and pH on the energy landscape of ACBP.**
Experimental Biology Conference- Poster 4/2020
- [6] **Cautery Injury Response in Zebra Fish**
Indiana Physiological Society Annual Meeting- Poster 3/2020
- [7] **Examination of the effect of a Histidine tag and pH on the energy landscape of ACBP**
Midwest Conference on Protein Folding, Assemblies, & Molecular Motions- Poster 5/2019
- [8] **Structure, Development, and Functional Morphology of the Cement Gland of the Giant Danio**
Indiana Physiological Society Annual Meeting- Poster 3/2019

**LEADERSHIP,
OUTREACH, &
MENTORING**

Biophysical Society Student Chapter (Co-Founder) 4/2021-
 Biophysics Student Selected Seminar Speaker (Organizer) 4/2021
 Black Graduate Student Association (Treasurer) 12/2020-
 Students of Color in STEM (Co-Founder) 8/2018 - 05/2020
 First Year Experience Program 05/2019 - 05/2020
 Being Human in STEM- DePauw Chapter 01/2020 - 05/2020

ACHIEVEMENTS

Honors and Awards:

Biophysical Society Travel Grant 11/2021
Prindle Prize (Science Thesis Award) 05/2020
Douglas A. & Phyllis G. Smith Student Faculty Collaborative Award 04/2019
Winner- Science Ethics Bowl 08/2017
Science Research Fellowship 08/2016

Scholarships:

John S. & Dorothy M. Medaris Scholarship 04/2017
Dr. Hakki B Ogelman Endowed Scholarship 04/2017
Bonner Scholarship 04/2016
Ubben DePauw Trust Scholarship 04/2016

MEMBERSHIPS

Biophysical Society
American Society for Biochemistry and Molecular Biology

TEACHING
EXPERIENCE

DePauw University (IN)
Teaching Assistant

CHEM120: Structure and Properties of Organic Molecules (Fall 2018- Fall 2019)

BIO241: Intermediate Cellular Biology (Spring 2020)

Academic Resource Center-Quantitative Tutor

Biology- Introductory Courses, Cell Biology, Molecular Biology, Genomics, Biostatistics, and Bioinformatics

Chemistry- General Chemistry, and Organic Chemistry

Physics- Introductory Courses, Modern Physics, Nuclear Physics, Classical Physics

Mathematics- Calculus 1-3, all Statistics Courses

Updated: December, 2021