

Papa Kobina Van Dyck

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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), Doctor of Philosophy <i>Biophysics</i> Advisor: Katharine A. White Research: <i>Determining pH-dependent functions of ionizable residue networks</i>	08/2020 -
	DePauw University (IN), Bachelor of Arts <i>Cell and Molecular Biology</i> <i>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 -
	Regeneration Studies in the Zebrafish Advisor: Pascal Lafontant - DePauw University (IN)	08/2018 - 05/2020
	Characterizing Histidine Tag Interactions with Model Proteins Advisor: Emily J. Guinn - DePauw University (IN)	08/2018 - 12/2019
	Visualizing and Analyzing Neuroimaging Datasets including EEG and fMRI Advisor: Joshua Vogelstein - Johns Hopkins University (MD)	05/2018 - 08/2018
PUBLICATIONS	<i>[1] Papa Kobina Van Dyck , 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	<i>[1] Characterizing pH Molecular Mechanisms of Networks of Ionizable Residues</i> <i>Biophysical Society Annual Meeting 2022</i>	2/2022
	<i>[2] Characterizing pH Molecular Mechanisms of Networks of Ionizable Residues</i> <i>AfroBiotech 2021</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 10/2021
- [4] **Belonging and Optics of DePauw University's STEM Departments**
HSTEM 2021 NSF Conference 6/2021
- [5] **Examination of the effect of a Histidine tag and pH on the energy landscape of ACBP.**
Experimental Biology Conference 4/2020
- [6] **Cautery Injury Response in Zebra Fish**
Indiana Physiological Society Annual Meeting 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 and Molecular Motions 5/2019
- [8] **Structure, Development, and Functional Morphology of the Cement Gland of the Giant Danio**
Indiana Physiological Society Annual Meeting 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:	
	<i>Biophysical Society Travel Grant</i>	11/2021
	<i>Prindle Prize (Science Thesis Award)</i>	05/2020
	<i>Douglas A. & Phyllis G. Smith Student Faculty Collaborative Award</i>	04/2019
	<i>Winner- Science Ethics Bowl</i>	08/2017
	<i>Science Research Fellowship</i>	08/2016
	Scholarships:	
	<i>John S. & Dorothy M. Medaris Scholarship</i>	04/2017
	<i>Dr. Hakki B Ogelman Endowed Scholarship</i>	04/2017
	<i>Bonner Scholarship</i>	04/2016
	<i>Ubben DePauw Trust Scholarship</i>	04/2016

MEMBERSHIPS	<i>Biophysical Society</i>
	<i>American Society for Biochemistry and Molecular Biology</i>

TEACHING
EXPERIENCE

DePauw University (IN)

Teaching Assistant- *Organic Chemistry*

Quantitative Tutor- *Biology, Chemistry, Physics, and Mathematics*

Updated: December, 2021