Women in Science Enabling Research Faculty Research Proposa w்ர்ற்குக்குற்றிவிரி⊛்கு ள்ளுக்குவை இது
Collaboration with Dr. Bily and other students in the Bily lab.
3) Provide a short paragraph including both personal and professional biographical information.
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I live in the city of Chicago in the Andersonville neighborhood, which is just a few miles south and west of Loyola. I live with my wife Eva, my 15-year-old son Liam, and our dogs Charlie and Hank. Charlie is a 6-year-old labrador retriever and Hank is a 9-month-old St. Bernard.

Faculty Name and Department: Jennifer Mierisch, Department of Biology

Project Title: Exploring the genetic mechanisms regulating gametogenesis

Please provide a short discussion of your research project and goals for the Summer of 2024.

Continued species propagation hinges on the ability of males and females to produce quality sperm and eggs via the process of gametogenesis. The development of sperm and egg occurs via a stepwise process that begins with a germline stem cells that divides mitotically, undergoes meiosis, and completes maturation. This process requires supporting somatic cells that signal to the developing sperm and egg to ensure its proper development. Defects in signaling between the somatic support cells and the developing sperm and egg can arrest this process and lead to infertility. Therefore, characterizing the signals sent and received by each cell type and identifying the downstream outputs of these signals is needed to understand the infertility can arise. My lab is particularly interested in the role of Notch signaling in gametogenesis.

Notch signaling in the somatic support cells is needed to prow0.1 (tNm.8 (e)-6 (e9.6 (8)-0.7(p)16.19. (t)-6 (8)-0.7 (e)-6

Faculty Name and Department:	Robert G.	Morrison, PhD,	Psychology/Neuroscience
Project Title:			

Faculty Name and Department: Ken Olsen, Department of Chemistry and Biochemistry

Project Title: Molecular Dynamics of Drug-Protein and Drug-Polymer Interactions

1) Please provide a short discussion of your research project and goals for the Summer of 2024. The projects in my laboratory are computational simulations of molecular interactions

Faculty Name and Department: Martina Schmeling, Chemistry and Biochemistry department **Project Title:** Environmental Sampling of Chicago Industrial Corridors

1) Please provide a short discussion of your research project and goals for the Summer of 2024.

Industrial pollution is a common occurrence in many urban areas including Chicago which has been a center of industrial production and a major transportation hub for more than a century. Special zones, known as industrial corridors, have been set aside to accommodate the different industries, but concerns have grown on the pollution these industrial corridors produce and their impacts on the surrounding neighborhoods. Whereas air pollution is being monitored per state requirement, very little is known about ridlterllutio hu3no-0.8 (i)-3.2 (n) h9.6 (r)-2.8 (h)-0.7 () -5.9 (c)