Academy of Sciences of the Czech Republic

Nové Hrady, Czech Republic

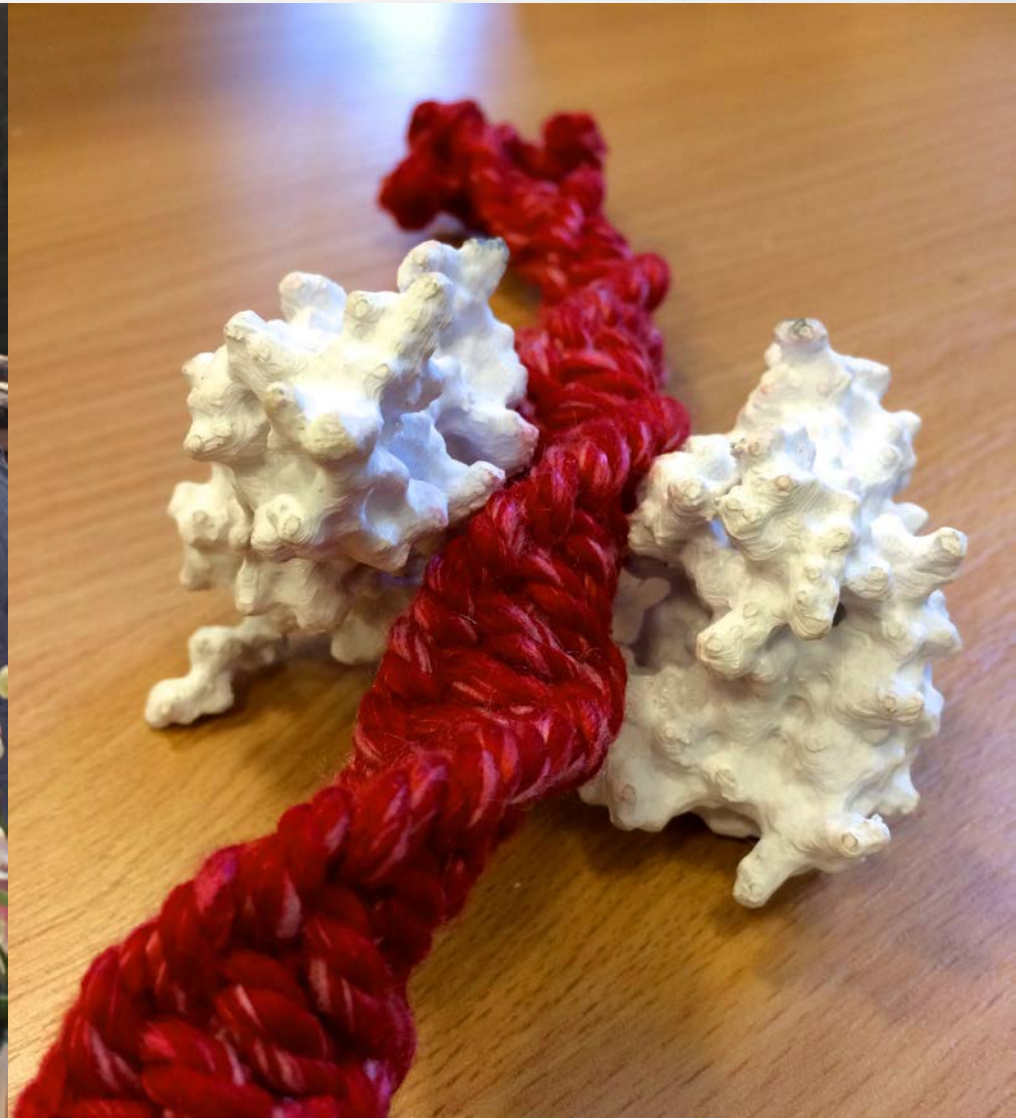
Daniel Wood ‘18

Project Overview

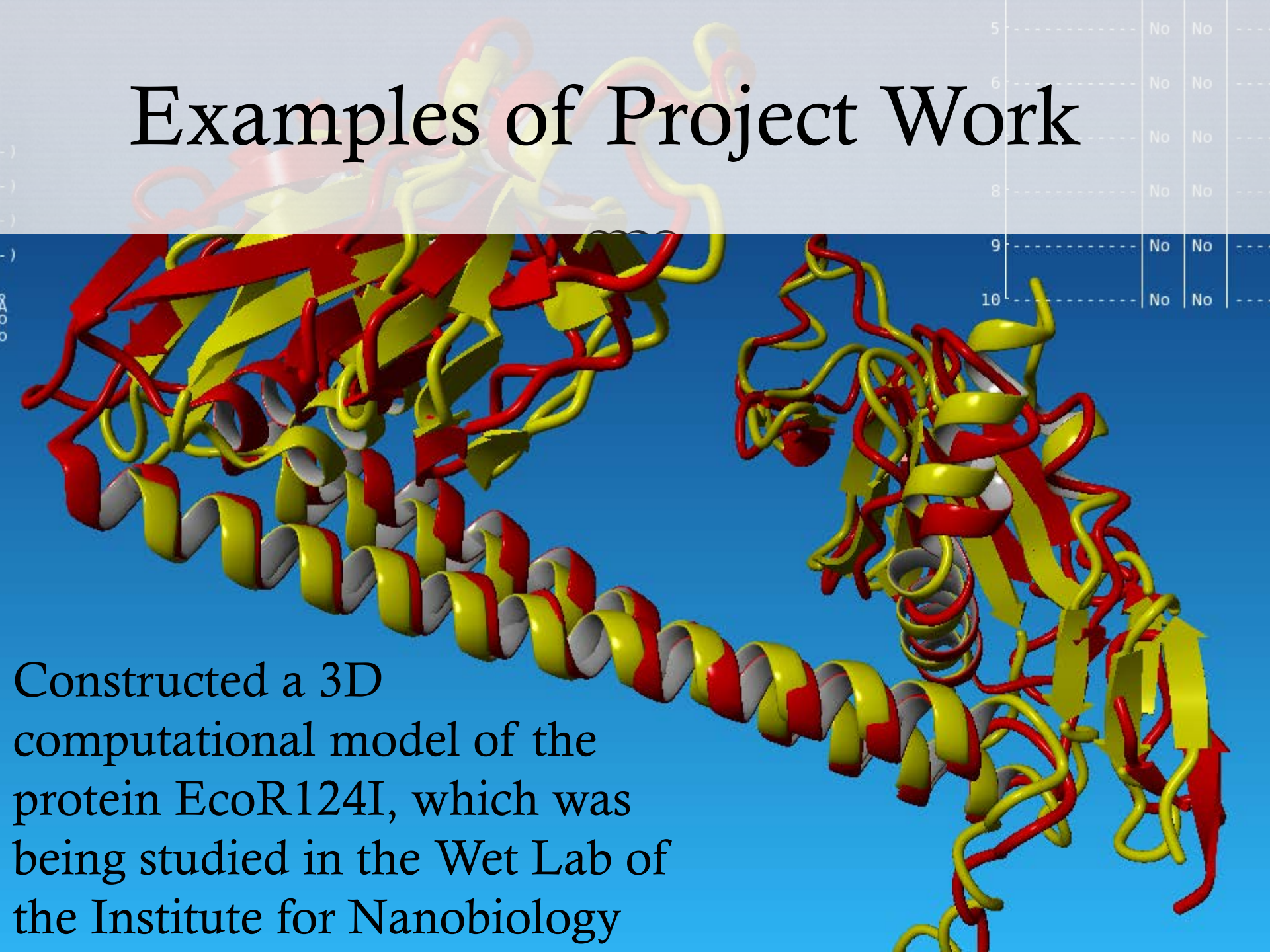
- Computational model of protein
- Compiling relevant scientific literature into paper
- Presentation at the 5th Visegrad Conference

Colleagues at Work

Most Rewarding Experience

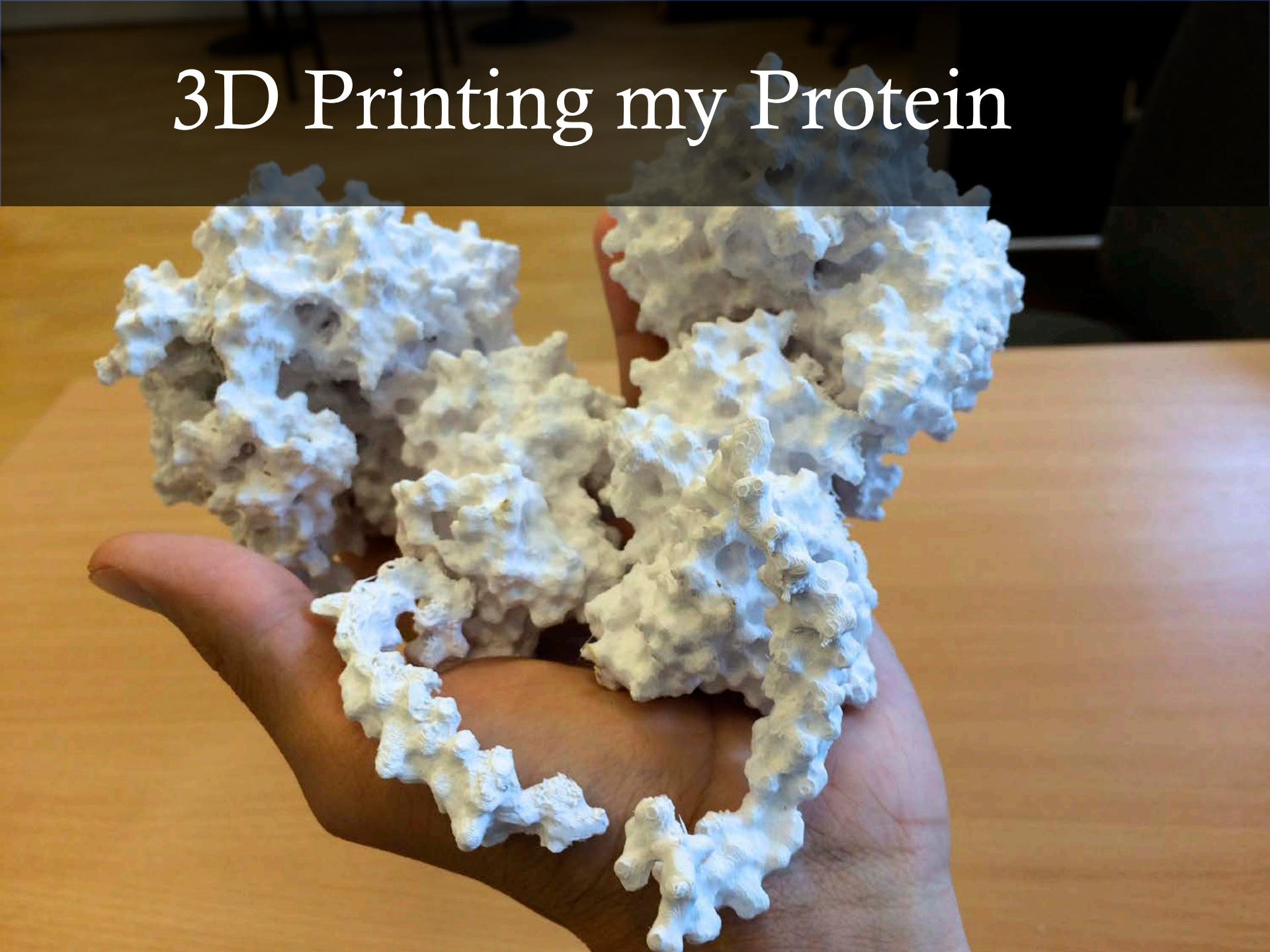


Examples of Project Work



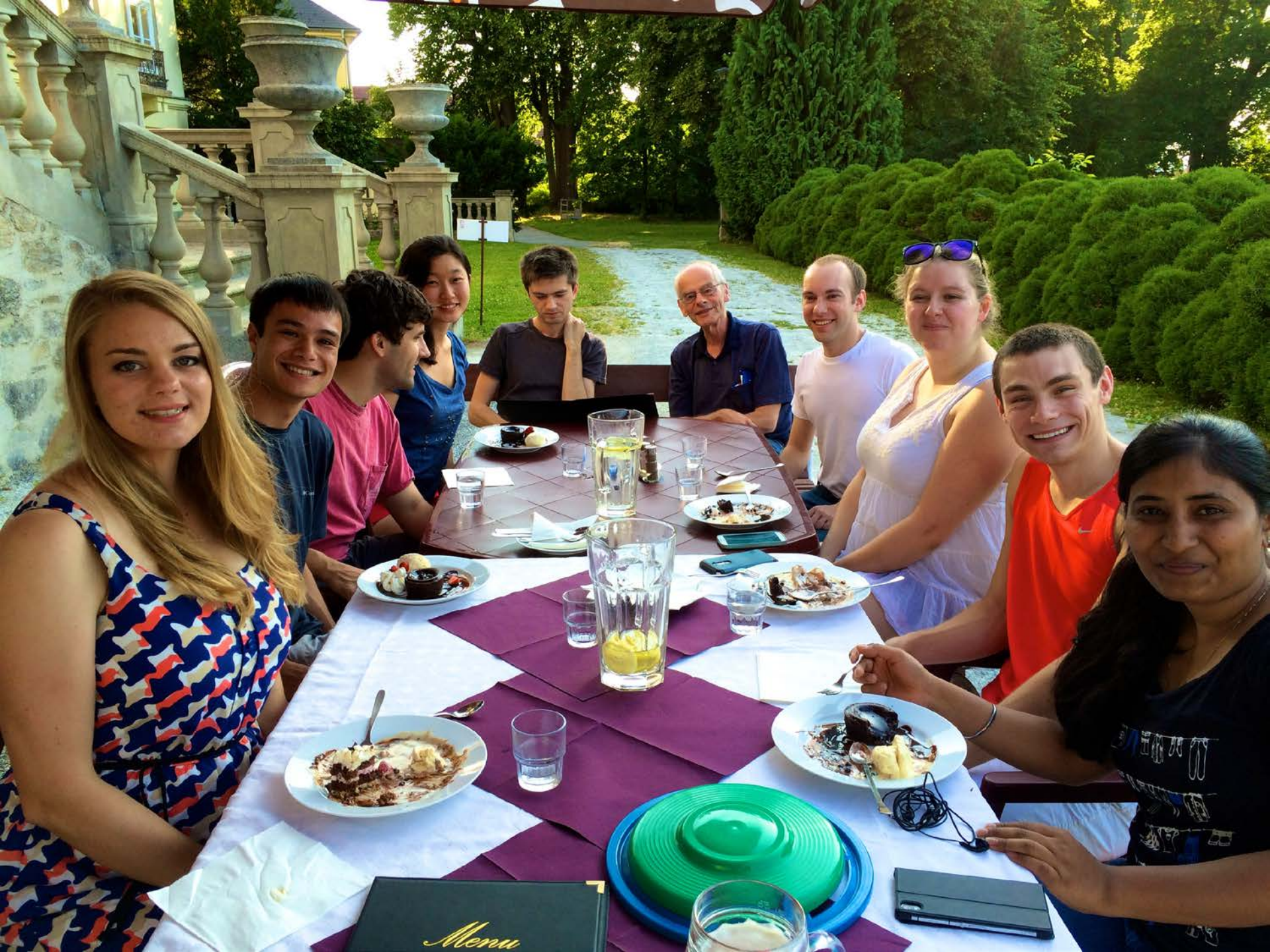
Constructed a 3D computational model of the protein EcoR124I, which was being studied in the Wet Lab of the Institute for Nanobiology

3D Printing my Protein



Impacting the Institute

- My final research will be incorporated into a published scientific paper!
- Discovered new orientations of protein subunits
- Compiled all the relevant literature on EcoR124I into a comprehensive paper to facilitate research
- Designed a preliminary model of EcoR124I that addressed flaws in previous modeling attempts
- 3D Printed my protein to visualize steric clashes


Menu

Impact on my Education/Career

- This internship exposed me to the wide variety of applications for computer science and computational research
- Made me appreciate the work that goes into publishing a scientific paper and graduate school
- Made me realize that even though I had an incredible experience, I might not be cut out for academic research

11 Countries in 11 Weeks

HOTEL

Overall Reflection

- This internship allowed me to understand the full international scope of scientific collaboration and research
- Travelling to 11 countries exposed me to so many new cultures and made me a more conscientious citizen
- Afforded me the first opportunity to live and work independently for an entire summer by myself!
- Had an absolutely incredible time meeting new friends, professors, and researchers around the world