  
2022 Eisenberg Fellowship Projects  
(Abstracts available upon request)

**Mentor: Professor Marc Porosoff**  
Synthesis and characterization of heterogeneous   
catalysts for CO2 hydrogenation

**Mentor: Professor Astrid Mueller (two projects)**  
(1) Efficient carbon dioxide electroreductions to C2+ products by   
laser-made multicomponent nanocatalysts  
  
(2) Physical characterization of laser-made multicomponent nanocatalysts for efficient carbon dioxide electroreductions

**Mentor: Professor Wyatt Tenhaeff**

Multifunctional Lithium Ion Battery Separators

**Mentor: Professor Andrew White**Predicting molecular properties with deep learning

**Mentor: Professor David Foster (five projects)**(1) CFD Analysis of Mixing in the Transition Flow Region

(2) CFD and Particle Balance Modeling of Industrial Latex Reactions

(3) CFD Investigation of Fluid Penetration in   
Porous Enzyme Immobilizing Scaffolds

(4) Patient Specific CFD Simulations of the   
Carotid Artery to Predict Stroke

(5) CFD Simulations of Ureteroscopy Irrigation of the Kidney