Junior Scientists Participation Fellowship – Constanze Neumann

Constanze Neumann completed her Masters degree in chemistry at the University of Oxford, where she completed her Part II research in the group of Prof. Timothy Donohoe. Upon moving to the US, she started her PhD in the group of Prof. Tobias Ritter at Harvard University, where she worked on the deoxyfluorination of arenes with ^{18}F and ^{19}F via concerted nucleophilic aromatic substitution. During her postdoctoral stay at MIT in the group of Prof. Mircea Dincă, she developed MOF-derived alloy nanoparticle catalysts for the Guerbet reaction. In 2020, Connie started her independent career at the Max Planck Institut für Kohlenforschung in Mülheim an der Ruhr as a Lise-Meitner group leader. Her group develops heterogeneous catalysts based on metal-organic frameworks and alloy nanoparticles. A focal point of the group's research is the development of catalyst support materials that have the ability to control the selectivity of the catalyzed reaction or safeguard the longevity of metal active sites.