

Eva M. Nichols

Assistant Professor, Department of Chemistry, University of British Columbia, Canada

Biography: I am currently an Assistant Professor in the Department of Chemistry at the University of British Columbia in Vancouver, Canada. I earned my B.S. in Chemistry from the California Institute of Technology and my Ph.D. from the University of California, Berkeley, where I worked with Christopher Chang on a combination of molecular, materials, and biological catalysts for electrocatalytic CO₂ valorization. I later spent two years as an NIH Ruth Kirschstein Postdoctoral Fellow at Yale University, working with Jim Mayer to study molecularly modified electrodes using surface enhanced infrared spectroscopy. Since beginning at UBC, my group's research interests focus on understanding the role of the local reaction environment in governing electrocatalytic rates and selectivities with a primary focus on CO₂ reduction. We study both homogeneous molecular catalysts and molecularly modified metal surfaces, and apply a range of synthetic, electrochemical, spectroscopic, and physical organic approaches to gain mechanistic insights. I have previously served as a co-chair of the Gordon Research Seminar in Inorganic Reaction Mechanisms. I have also been recognized as a Scialog Fellow in Negative Emissions Science and a CIFAR Azrieli Global Scholar in Accelerated Decarbonization.

Candidate Statement: I am running for the Division 6 (Molecular Electrochemistry) Chair Elect because I am eager to contribute to the International Society of Electrochemistry's future conference programming. I have been very impressed with the ISE's welcoming community and ability to host truly international conferences that bring together colleagues from all around the world. I believe that this is a unique strength of the ISE, and I will work to ensure that future meetings continue to highlight the diversity of exciting molecular electrochemistry that is currently ongoing. I will also explore ways to strengthen connections between members and attendees to further promote fruitful scientific discussions and collaborations between colleagues. Strengthening our networks and encouraging dialogue across the wide space of our subdiscipline will not only advance the entire field of electrochemistry but will also inspire future researchers. I appreciate your consideration of my candidacy and I look forward to the possibility of serving our community in this role.

