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- **Scope of research interests:** deep decarbonization of the U.S. bulk power system, accounting for cross-sector interactions
- **Research areas related to renewable energy-based hybrids (RE Hybrids):**
 - Defining/taxonomizing RE Hybrids
 - Local complementarity of wind-based hybrids on a continental scale, and its relationship with energy and capacity value
 - Wind-PV and wind-hydro, with and without energy storage capabilities
 - Design-dependent value of RE Hybrids, focusing on hybrid components and relative sizing
 - Deployment potential of RE Hybrids through model development and analysis in long-term grid planning models for the US
 - Impact on transmission expansion and system cost
 - Role in deep decarbonization scenarios

