

IPID4all Senior Research Exchange with University of Colorado Boulder

Feedback report

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425 UCB
Boulder, CO 80309, USA
Advisor: Dr. Lucy Pao
Exchange period: 8/15-8/25
Exchange topic: Wind Turbine Control

University of Oldenburg
ForWind – Center for Wind Energy Research
Köpkersweg 70
26129 Oldenburg, Germany
Host supervisor: Prof. Dr. Martin Kühn

Activities / Contacts

Chris Bay traveled to ForWind as a senior researcher for 10 days in August 2017 with funding from the IPID4all research exchange program. One purpose of the trip was to give a presentation regarding updates of the large-scale wind turbine project that Prof. Lucy Pao and two other IPID4all recipients (Dan Zalkind and Dana Martin (PhD student at the Colorado School of Mines (CSM))) are also a part of, along with details regarding the planned field campaign at the US National Renewable Energy Laboratory's National Wind Technology Center near Boulder, Colorado. The other purpose of the exchange was for Chris to learn about the current work being completed by ForWind researchers and to discuss possible future collaborations. While at ForWind, Chris was able to spend a significant amount of time discussing ideas with a resident post-doc, Dr. Petrović, and the students he advises.

Future collaboration / Outlook

Prof. Pao's group hosted Prof. Dr. Martin Kühn along with his graduate students Frederik Berger, Marc Fromm, and Andreas Rott of the Wind Energy Systems Group at ForWind, who visited CU Boulder as part of an IPID4all exchange in October 2017. Current plans include hosting Dr. Vlaho Petrović of ForWind at CU Boulder in early July 2018, as well as potential collaboration during some of ForWind's planned LIDAR testing at the National Wind Technology Center located in Boulder, Colorado. Additionally, Chris plans to continue collaboration with Dr. Petrović and the graduate student Mehdi Vali on their work with Model Predictive Control of wind farms.

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Chris Bay (post-doc at CU Boulder and CSM) and Vlaho Petrović (post-doc at ForWind) during a weekend visit to the island of Norderney on the Northern Sea.

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