

## **COST Action IC1205 on Computational Social Choice: STSM Report**

**Applicant:** Markus Brill

**Home institution:** University of Oxford

**Home country:** UK

**Host:** Vincent Conitzer

**Host institution:** Duke University

**Host country:** USA

**Dates:** 08/24/2016 to 09/07/2016

During my visit, I collaborated with my frequent coauthors Vincent Conitzer and Rupert Freeman. We continued our collaboration on crowdsourcing societal tradeoffs and we initiated a student project whose goal is the creation of a website that allows users to apply our aggregation procedures to practically relevant tradeoff scenarios. We have also worked on revising our joint paper on justified representation in approval-based committee voting. With Rupert, I have moreover been working on a new joint paper that has been submitted to the AAI conference.

Besides the collaboration with Vince and Rupert, I had the opportunity to discuss research topics with several other researchers at Duke University:

- With Brendon Fain (computer science graduate student), I have discussed theoretical aspects of participatory budgeting;
- with Sasa Pekec from the Fuqua School of Business, I have discussed a new research project centered around threshold approaches in committee voting;
- with Attila Ambrus from the Department of Economics, I have discussed the relationship between dominance-based solutions and coalitional rationalizability; and
- with Neeldhara Misra (who was visiting Duke from the Indian Institute of Technology in Gandhinagar), I have discussed extending the notion of justified representation to ordinal preferences.

Overall, this has been a very productive visit and I would like to thank the COST Action for making it possible.