

Johannes Bednar

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dob: 2. Nov. 1985

in Korneuburg, Austria



Professional Experience

Since 10/2016

International Institute for Applied Systems Analysis - research scholar

2326 Laxenburg

10/2016 – 02/2017

- Nonlinear time series analysis
- Development of stability indicators for process-based ecosystem models

Since 03/2017

- Phosphorus supply modeling
- Climate change mitigation scenario development

02/2014 – 08/2016

smart Energy Services GmbH - project manager

1030 Vienna

- Implementation of projects for energy suppliers in the retail sector, e.g. project lead in VERBUND's entry into the German energy market
- Drafting of contracts, conduct of negotiations, project management
- Project lead in specifying, tendering and implementing the company's CRM/ticketing software

05/2012 – 06/2013

Siemens AG - project engineer

Corporate Technology Development Center, 1210 Vienna

- Development of Siemens' joint Resource Optimization and Scheduling Software for energy utility firms
- Implementation of a Scenario Manager and scenario clustering workflow
- Stochastic optimization of energy portfolios

01/2010 – 03/2012

BOKU University of Natural Resources and Life Sciences - research assistant

Institute of Silviculture, 1190 Vienna

03/2008 – 06/2011

University of Vienna - tutor in physics for nutrition science

Faculty of Physics, 1090 Vienna (break during exchange semesters)

Education

Since 10/2019

University of Oxford, United Kingdom

Doctoral program in Geography and the Environment

08/2013 – 09/2015

University of Applied Sciences, Eisenstadt

English Master's program in European Studies (degree: Master of Arts in Business, *graduation with distinction*)
Focus on international economics

10/2005 – 11/2011

University of Vienna, Faculty of Physics

Physics diploma program (degree: Mag.rer.nat, *graduation with distinction*)
Focus on complex systems, modeling, systems analysis

01/2010 – 06/2010

Université de Montpellier II, France - exchange semester

07/2008 – 03/2009

University of Melbourne, Australia - exchange semester

Further Qualifications

Languages

German: mother tongue; **English:** business fluent; **French:** advanced

IT

MS Office, C/C++, R, GAMS

Certifications

Project Management D-Level (IPMA)
Supply Management (X-Sieben)

Publications

Bednar, J., Obersteiner, M., Baklanov, A., Thomson, M., Wagner, F., Geden, O., Allen, M., Hall, J. (2021). Operationalizing the net negative carbon economy. *Nature*, 596(7872), 377-383.

Bednar, J., Obersteiner, M., & Wagner, F. (2019). On the financial viability of negative emissions. *Nature communications*, 10(1), 1783.

Obersteiner, M., Bednar, J., Wagner, F., Gasser, T., Ciais, P., Forsell, N., ... & Peñuelas, J. (2018). How to spend a dwindling greenhouse gas budget. *Nature Climate Change*, 8(1), 7.

Master's degree thesis in European Studies (2015) *Liberalization & Unbundling – Welfare increase or EU dogma?*

Master's degree thesis in physics (2011) *Climatic thresholds for ecosystem stability*