

MATTHIAS KUBA

UNIT HEAD / POST-DOC

"To live is to choose. But to choose well, you must know who you are and what you stand for, where you want to go and why you want to get there." – Kofi Annan

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in www.linkedin.com/in/matthias-kuba-30823780

🏠 Sprengersteig 11,
1160 Vienna
Austria

WORK EXPERIENCE

- **Unit Head / Senior Researcher** – Bioenergy2020+ ♥ Austria
Oct 2016 - present
- **Post-doctoral research fellow** – Umeå University & LTU Luleå ♥ Sweden
Feb 2017 - present
- **Junior Researcher** – Bioenergy2020+ ♥ Austria
Sep 2013 – Sep 2016
- **Traineeships** – Baxter, VŠB-TUO, TU Dresden, TU Wien ♥ Europe
Aug 2009 – Apr 2013 (each between 1 -6 months)

EDUCATION

Academic English

Univ. Certificate
2007

♥ Bond University, Australia

Chemical Engineering

Bachelor and Master of Science
2007-2013

♥ TU Wien, Austria

Chemical Engineering

Doctor of Science
2013-2016

♥ TU Wien, Austria

HONORS & SCHOLARSHIPS

- Kempe Post-Doc Scholarship 2017
- Scholarship for research abroad 2015
- Scholar of e-fellows.net 2014
- TUtheTOP high potential program 2013
- Students4excellence program 2012
- Academic Performance Scholarship 2012
- Academic Performance Scholarship 2011
- Aktion Research Scholarship 2011

TEACHING

Gasification Academy 2017
KTH Stockholm
Course: Fluidized bed processes

Supervision

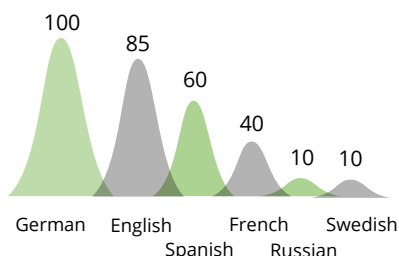
TU Wien, LTU Luleå
PhD-, master, and bachelor students

PERSONALITY (Myers-Briggs)

INFJ-A

BALANCED COMMITTED
SELF-AWARE
DIPLOMATIC
NEED FOR A CAUSE
STUBBORN IDEALISTIC
ENTHUSIASTIC LEVEL-HEADED
SELF-ASSURED SELECTIVE

LANGUAGES



HOBBIES

Astronomy (observations with own telescope), rock climbing & via ferrata, gardening, classical dance, travelling the world

SERVICES OF TRUST

- **Reviewer**
 - International journals
 - Conferences (abstracts and papers)
- **Scientific conference committees**
 - EUBCE 2016, 2017, 2018
 - IBSCE 2017
- **Board member**
 - Chairman (former), SAVT TU Wien

COURSES & SEMINARS

- **Pedagogy**
 - Learning in higher education, Umeå University
 - Teaching in higher education, Umeå University
 - Snowboard instructor license
- **International affairs**
 - Global advancement program, guest audition, AFA Austria
 - International club certificates, ÖGAVN Austria
- **Project management & economics**
 - PM workshops - basic & advanced, Bioenergy2020+
 - EBC*L Level A

INTERNATIONAL EXPERIENCE

Places I have worked



Places I have travelled



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LIST OF PUBLICATIONS

Peer-reviewed journal papers

Kuba, M., He, H., Kirnbauer, F., Skoglund, N., Bostrom, D., Ohman, M., & Hofbauer, H. (2016). Mechanism of layer formation on olivine bed particles in industrial-scale dual fluid bed gasification of wood. *Energy & Fuels*, *30*(9), 7410-7418.

Kuba, M., He, H., Kirnbauer, F., Boström, D., Öhman, M., & Hofbauer, H. (2015). Deposit build-up and ash behavior in dual fluid bed steam gasification of logging residues in an industrial power plant. *Fuel processing technology*, *139*, 33-41.

Kuba, M., Havlik, F., Kirnbauer, F., & Hofbauer, H. (2016). Influence of bed material coatings on the water-gas-shift reaction and steam reforming of toluene as tar model compound of biomass gasification. *Biomass and Bioenergy*, *89*, 40-49.

Kraft, S., Kuba, M., Kirnbauer, F., Bosch, K., & Hofbauer, H. (2016). Optimization of a 50 MW bubbling fluidized bed biomass combustion chamber by means of computational particle fluid dynamics. *Biomass and Bioenergy*, *89*, 31-39.

Kuba, M., He, H., Kirnbauer, F., Skoglund, N., Boström, D., Ohman, M., & Hofbauer, H. (2016). Thermal stability of bed particle layers on naturally occurring minerals from dual fluid bed gasification of woody biomass. *Energy & Fuels*, *30*(10), 8277-8285.

Kuba, M., Kirnbauer, F., & Hofbauer, H. (2017). Influence of coated olivine on the conversion of intermediate products from decomposition of biomass tars during gasification. *Biomass Conversion and Biorefinery*, *7*(1), 11-21.

Conference papers, posters, media articles and presentations

More than 20 contributions to conferences, workshops, seminars, and the media in Austria, Germany, Sweden, Netherlands, China, Denmark, etc.