

Marco Ragni

Curriculum Vitae

General

Birthday/place First of April, 1976 in Villingen-Schwenningen, Germany

Academic Degrees

- 07/2017 Granting of the title **Adjunct Professor**, *University Freiburg*.
- 09/2015 **Associate Professor, Habilitation and Venia legendi for General Psychology and Methods**,
University Freiburg, Faculty of Economics and Behavioral Sciences.
- 01/2015 **Associate Professor, Habilitation and Venia legendi for Cognitive Science**,
University Freiburg, Faculty of Economics and Behavioral Sciences.
- 07/2014 **Associate Professor, Habilitation and Venia legendi for Computer Science**,
University Freiburg, Technical Faculty,
Title: *Models, Systems, and Algorithms for High-Level Cognition: Reasoning and Problem Solving*.
- 06/2013 **Dr. phil. in Cognitive Science**, *University Freiburg*,
Behavioral and Economic Science Faculty,
Advisors: Prof. Dr. G. Strube, Prof. Dr. M. Knauff
Title: *The Psychology of Human Spatial Relational Reasoning*.
- 01/2008 **Dr. rer. nat. in Computer Science**, *University Freiburg*, Technical Faculty,
Advisors: Prof. Dr. B. Nebel, Prof. Dr. M. Knauff
Title: *Spatial representation, complexity, and deduction: A cognitive complexity theory*.
- 05/2002 **Master in Mathematics (Diplom)**, *University Freiburg*, Mathematical Faculty,
Advisor: Prof. Dr. H.-D. Ebbinghaus
Title: *The class Σ_1^1 in the meta-finite model theory*.

Academic Positions

since **Associate Member**, *Social psychology and methods*,
10/2015 Institute for Psychology, University Freiburg.

since **Associate Member**, *General and Cognitive Psychology*,
04/2015 Institute for Psychology, University Gießen.

since **Heisenberg-fellow**, *German Research Foundation/ Deutsche Forschungsgemeinschaft (DFG)*, University Freiburg.

since **Associate professor**, *Center for Cognitive Science*,
01/2015 Faculty of Economics and Behavioral Sciences, University Freiburg.

since **Associate professor**, *Department of Computer Science*,
07/2014 Technical Faculty, University Freiburg.

since **Principal investigator**, *Department of Cognitive Science*,
01/2014 Institute for Computer Science and Society, University Freiburg.

01/2008– **Assistant professor**, *Department of Cognitive Science*,
12/2013 Institute for Computer Science and Society, University Freiburg.

07/2002– **Research assistant**, *Department for the Foundation of Artificial Intelligence*,
12/2007 Institute for Computer Science, University Freiburg.

Research Grants/ Raised Third-party Funds as PI.

2017-2020 DFG-Projekt ***Intentional forgetting through cognitive-computational methods of prioritization, knowledge compression and contraction***, DFG, SPP,
PIs: M. Ragni, C. Beierle, G. Kern-Isberner.

2017-2020 DFG-Heisenberg-Project ***Formalization, Modeling and Implementation of a neuro-cognitive theory of reasoning***, DFG, **PI: M. Ragni.**

2015-2019 BMBF-Project ***SoNaTe: Soziale Nachbarschaft und Technik***, Bundesbildungsministerium BMBF, **PIs: M. Ragni, R. von Stülpnagel.**

2015-2017 Project ***Shared common grounds of qualitative and quantitative rational reasoning***, DFG, SPP, **PIs: M. Ragni, G. Kern-Isberner.**

2012-2014 Project ***Nonmonotonic logic***, DFG, SPP,
PIs: M. Ragni, M. Knauff, S. Wöfl.

2011-2014 Project ***CSpace II***, DFG, SFB/TR 8,
PIs: M. Ragni, L. Konieczny.

2011 Project ***WoMap***, DFG, SFB/TR 8,
PI: E. C. Ferstl; Co-PIs: C. Hölscher, M. Ragni.

- 2009-2010 Project **CSpace I**, DFG, SFB/TR 8,
PIs: M. Ragni, T. Barkowsky, C. Hölscher.
- 2009-2010 Project **ActivationSpace**, DFG, SFB/TR 8,
PIs: M. Ragni, G. Strube.
- 2008-2009 Project **iModelSpace**, DFG, SFB/TR 8,
PIs: M. Ragni, G. Strube, T. Barkowsky.

Scholarly Activities and Service

since 08/2016 Head of the Cognitive Computation Lab, Technical Faculty, University Freiburg.

Fellowship

since 08/2015 **Fellow of the** Excellence Cluster BrainLinks-BrainTools at the Technical Faculty Freiburg.

Activities as a Board Member

since 07/2012 **Chief executive** of the Cognition-Section within the Artificial Intelligence Section of the German Society of Informatics (GI).

since 03/2014 **Board member of the Special Research Center “Spatial Cognition”**.

2008-2012 **Board member of the German Society for Cognitive Science**,
Position as Treasurer.

Selection of Invited Talks within 2016-2019

- 2019 **Pacific Rim Conference on Artificial Intelligence (19th PRICAI), Fiji**, *Title: Course on Cognitive Logics.*
- 2019 **Summerschool on Logic, Mongolia, DAAD**, *Title: Course on Cognitive Reasoning.*
- 2019 **FRIAS: Freiburger Institute for Advanced Studies**, *Title: Cognitive Reasoning: Differences between Human and AI.*
- 2017 **International Center for Computational Logic Summerschool, TU Dresden**, *Title: Course on Cognitive Science (6h); Course on Advanced Theories of Human Reasoning (3h).*
- 2016 **International Rationality Summerschool by the SPP 1516**, *Title: Mental Models and Human Rationality.*
- 2016 **CSI 2016 Summer School, Montreal, Canada**, *Title: Neurocognitive Models of Relational Reasoning.*

Organization of Workshops and Tutorials

- 2019 **Workshop „Predicting the Individual Reasoner“**, *International Cognitive Science Conference (CogSci 2019) together with S. Khemlani and N. Riesterer.*
- 2018 **Workshop „Bridging the Gap between Human and Automated Reasoning“**, *International Joint Conference Artificial Intelligence (IJCAI 2018) together with U. Furbach, C. Schon and S. Hölldobler.*
- 2018 **Workshop “Bridging the Gap between Human and Automated Reasoning”**, *International Joint Conference Artificial Intelligence (IJCAI 2018) together with U. Furbach, C. Schon and S. Hölldobler.*
- Workshop “Formal and Cognitive Reasoning”**, *41th German Conference on Artificial Intelligence (KI-2018) together with F. Stolzenburg, G. Kern-Isberner, Matthias Timm and C. Beierle.*
- 2017 **Workshop “Bridging the Gap between Human and Automated Reasoning”**, *Cognitive Science Conference (CogSci 2017) together with U. Furbach, C. Schon and S. Hölldobler.*
- Workshop “Formal and Cognitive Reasoning”**, *40th German Conference on Artificial Intelligence (KI-2017) together with F. Stolzenburg, G. Kern-Isberner and C. Beierle.*
- 2016 **Workshop “Bridging the Gap between Human and Automated Reasoning”**, *International Joint Conference on Artificial Intelligence (IJCAI 2016) together with U. Furbach, C. Schon und S. Hölldobler.*
- 2016 **Organization of the first Summerschool of the SPP 1516: “New Frameworks of Rationality”**, *together with M. Knauff.*
- Workshop “Bridging the gap between human and automated reasoning”**, *International Joint Conference on Artificial Intelligence (IJCAI 2016) together with U. Furbach, C. Schon and S. Hölldobler, accepted.*
- 2015 **Workshop “Formal and cognitive reasoning”**, *German Conference for Artificial Intelligence (KI 2015) together with C. Beierle, G. Kern-Isberner, F. Stolzenburg.*
- Workshop “Bridging the gap between human and automated reasoning”**, *25th International Conference on Automated Deduction (CADE 25).*
- 2014 **Workshop “High-Level Cognition”**, *German Conference for Artificial Intelligence (KI 2014) together with F. Stolzenburg.*
- Doctoral Colloquium**, *German Conference for Cognitive Science (KogWis 2014) with M. Butz, K. Vogeley, S. Kopp.*
- 2013 **Workshop for the Special Priority Program 1516 “Operationalize”**, *together with H. Singmann.*

- Workshop “Spatial and Visual Cognition”**, *German Conference for Artificial Intelligence (KI 2013) together with F. Stolzenburg.*
- 2012 **Tutorial “The Cognitive Architecture ACT-R with Cognitive Robotics as an Application”**, *German Conference for Artificial Intelligence (KI 2012) together with R. Albrecht and S. Bennati.*
- Tutorial “Cognitive Modeling with ACT-R”**, *German Conference for Cognitive Science (KogWis 2012) together with R. Albrecht.*
- Workshop “Human Reasoning and Automated Deduction”**, *German Conference for Artificial Intelligence (KI 2012) together with T. Barkowsky and F. Stolzenburg.*
- 2010 **Tutorial “Complexity in Human Deduction”**, *Summer School of the International Center for Computational Logic (ICCL) Dresden, September 2010.*
- 2009 **Workshop “Complex Cognition”**, *German Conference for Artificial Intelligence (KI 2009) and M. Knauff and U. Schmid.*
- 2008 **Tutorial “Qualitative Spatial and Temporal Reasoning: Formal Aspects and Cognitive Theories”**, *Spatial Cognition Conference 2008.*
- Workshop “Cognitive Models of Human Spatial Reasoning”**, *Spatial Cognition Conference 2008 with H. Schultheis and T. Barkowsky.*
- Doctoral Colloquium**, *Spatial Cognition Conference 2008 with S. Bertel.*

Development of New Courses and Member of Committees

- 2014 Member of the Committee **to develop an accreditation proposal for the new master course Cognitive Science** at the University Freiburg.
- 2012 Member of the Committee **to restructure the bachelor Cognitive Science** at the University Freiburg.
- 2011 Member of two **Associate Professor Committees** at the University Freiburg.
- Member of the Committee to develop a new **Master course for Cognitive Science** at the University Freiburg.
- 2010 Member of the Committee to develop **a new Master course Technical Cognitive Systems** at the Technical Faculty at the University Freiburg.

Editorship and Activities as a Reviewer

Editor

since 01/2018 Journal *Künstliche Intelligenz*, Springer

Guest Editor / Special Editions

- 2019 KI-Journal Edition **Cognitive Reasoning** together with U. Furbach, C. Hölldobler, C. Schon F. Stolzenburg
- 2015 KI-Journal Edition **High-Level Cognition and Computation** together with F. Stolzenburg
- 2014 KI 2014 Workshop-Proceedings **Higher-Level Cognition and Computation**, SFB/TR 8 Report No. 037-09/2014, 2014 together with F. Stolzenburg
- 2013 KI 2013 Workshop-Proceedings **Visual and Spatial Cognition**, SFB/TR 8 Report No. 034-08/2013, 2013 together with M. Raschke and F. Stolzenburg
- 2012 KI 2012 Workshop-Proceedings **Human Reasoning and Automated Deduction**, SFB/TR 8 Report No. 032-09/2012, 2012 together with T. Barkowsky and F. Stolzenburg
- 2011 Elsevier Journal Cognitive Systems Research special edition on **Complex Cognition** together with U. Schmid, J. Funke

Activities as a Reviewer for Journals (Selection)

Cognitive Science

Cognitive Systems Research

Spatial Cognition and Computation

Information Science

Advances in Modal Logic

Journal of Artificial Intelligence Research

Artificial Intelligence Journal

Activities as a Reviewer for Conferences

- 2011 - 2015, Program Committee Member Cognitive Science Conference
- 2017 - 2018
- 2012 - 2018 Program Committee Member International Conference on Cognitive Modeling
- 2011 - 2015, Program Committee Member German Conference on AI
- 2018
- 2010 Knowledge Representation and Reasoning Conference
- 2006 - 2010 International Conference on Cognitive Science
- 2008 International Conference on Artificial Intelligence (AIMSA)
- 2005, 2007 International Joint Conference on Artificial Intelligence
- 2007 Conference on Spatial Information Theory (COSIT)
- 2006 European Conference of Artificial Intelligence

2004, 2008, International Conference on Spatial Cognition
2014

Research Visits

02/2018 New York, USA, Prof. P. Johnson-Laird
09-10/2017 Universität Leiden, NL, Prof. Lorenza Colzato
10-12/2016 New York University, USA, Prof. P. Johnson-Laird
03/2016 Universität Leiden, NL, Prof. Lorenza Colzato
03-07/2015 Justus-Liebig-Universität Gießen, Prof. Markus Knauff
03-04/2010 Princeton-University, USA, Prof. P. Johnson-Laird
05-08/2008 Princeton-University, USA, Prof. P. Johnson-Laird
09-10/2005 Princeton-University, USA, Prof. P. Johnson-Laird
01-02/2003 Princeton-University, USA, Prof. P. Johnson-Laird

Memberships

Cognitive Science Society
Gesellschaft für Kognitionswissenschaft e.V.
Gesellschaft für Informatik