

Curriculum Vitae

Stefan Oppl has been actively working in academia since 2003. He graduated in *computer science* in 2004 at the Kepler University of Linz and earned an MBA degree in *applied knowledge management* in 2007. During his undergraduate studies, he was awarded three times with grants for *outstanding study performance* by the university. His master thesis was awarded a *grant for excellent Austrian students by the minister of research and education*. He earned his PhD in computer science from the technical University of Vienna in 2010. His thesis was *nominated for the GI Dissertationspreis*, an annual award for the best PhD thesis in computer science in German-speaking countries, and received the *VÖWA-Wissenschaftspreis* for high practical and industrial relevance of a PhD thesis. The technical result of his PhD thesis has been further developed to a commercial product and is offered on the business process management market by the partner company Metasonic GmbH since 2013. In 2016, he was granted an *Erwin-Schrödinger-Fellowship* by the Austrian Science Fund. In 2017, he was awarded with a Short-List-Nomination for the *Austrian National Prize Ars Docendi* for excellent academic teaching in recognition of his development and deployment of innovative teaching formats.

Since 2010, he has been a postdoc and *assistant professor* at the Johannes Kepler University of Linz with research visits to the Technical University in Darmstadt and the Ruhr-Universität in Bochum (Germany). From 2011 to 2015, he has been the *principal investigator and coordinating project manager* of the FP7 PEOPLE IAPP project IANES and the LLL LdV ToI project FARAW. He was scientifically and administratively responsible for both projects from proposal writing until final reporting. Aside this, he has also two times organized the international *ERASMUS intensive programme SURGEOM*, a summer school teaching programme on socio-technical support of organizational work in 2013 and 2014. He has been responsible for the overall curriculum design and has also been involved in teaching. From May 2016 to February 2017, he has been a visiting researcher at Radboud University Nijmegen, The Netherlands, as an Erwin-Schrödinger-Fellow funded by the Austrian Science Fund. He defended his habilitation thesis in September 2017 and was subsequently promoted to the tenured position of an *associate professor* in business information systems at Johannes Kepler University.

Stefan Oppl has published more than 50 peer-reviewed articles in journals and at international conferences (Google Scholar metrics as of Oktober 2017: 326 citations, h-index: 9). He is active as a reviewer for conferences and journals in HCI and information systems, has co-organized the workshop on Models and their Role in Cooperation at eCSCW 2013, was the organization chair of S-BPM ONE 2012 and the workshop chair of S-BPM ONE 2018.

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General Information

- Name: Stefan Oppl
- Date of Birth: August, 10th, 1980
- Nationality: Austria
- Gender: male
- Family: married, 2 children
- Personal address: Josef-Fellinger Siedlung 28
4400 Steyr, Austria
- Personal website: <http://www.oppl.info>

Main Areas of Research

- Methodological and Technical Support for Explicit Articulation Work in Organizations
- Scaffolding Abstraction and Algorithmic Thinking in Work Process Modeling
- Tabletop Interfaces for Supporting Collaborative Learning Processes
- Information Systems for Organizational Learning Support

Positions held in Academia

Current Positions

- since 2017: Associate Professor, Johannes Kepler University of Linz, Austria, Department of Business Information Systems - Communications Engineering
- since 2012: Assistant Professor, Johannes Kepler University of Linz, Austria, Department of Business Information Systems - Communications Engineering
- since 2007: Lecturer, University of Applied Sciences Upper Austria, School of Management, School of Informatics, Communication and Media

Former Positions

- 05.2016 - 02.2017: Erwin-Schrödinger-Fellow, Radboud University Nijmegen, The Netherlands
- 09.2011 - 01.2012: Researcher, Metasonic AG, Germany (4 months Marie-Curie fellowship via IAPP-project IANES)
- 2005 - 2011: Staff researcher and teacher, Johannes Kepler University of Linz, Department of Business Information Systems - Communications Engineering
- 2003 - 2005: Research project member, Johannes Kepler University of Linz, Department for Pervasive Computing

Education

Academic Education

- 2017: Venia Docendi in business informatics, Johannes Kepler University of Linz
- 2006 - 2010: PhD in computer science, Technical University of Vienna, passed with distinction
- 2005 - 2007: post-graduate MBA in applied knowledge management, Johannes Kepler University of Linz, passed with distinction
- 2000 - 2004: MSc in computer science, Johannes Kepler University of Linz, passed with distinction

Further Professional Education

- 2006 - 2007: Hochschuldidaktischer Lehrgang (didactics for academic education), Johannes Kepler University of Linz
- 2002: Lehrgang „Gruppen führen und leiten“ (leadership in expert organizations), Fa. OE-263
- 1994 - 1999: Technical high school diploma in electronics and computer science, HTL Steyr, passed with distinction

Scientific Publications

The following list contains all scientific publications (co-)authored by Stefan Oppl. They are categorized in journal articles, conference papers, workshop contributions, and book chapters. In addition, his theses and editorships are listed at the end of this document. All publications are sorted chronologically in each category with the most recent on top.

Journal Articles

- Mühlburger, M., Oppl, S., & Sary, C. (2017). KMS re-contextualization – Recognizing learnings from OMIS research. *VINE Journal of Information and Knowledge Management Systems*, 47(3), 302-318. <https://doi.org/10.1108/VJIKMS-05-2016-0021>
- Oppl, S. (2017). Adopting Principles of Freinet Pedagogy in Higher Education – A Report on the Design and Evaluation of a Didactical Experiment. *Momentum Quarterly*, 6(4).
- Oppl, S., Reisinger, F., Eckmaier, A., & Helm, C. (2017). A flexible online platform for computerized adaptive testing. *International Journal of Educational Technology in Higher Education*, 14(1), 1–20. <http://doi.org/10.1186/s41239-017-0039-0>
- Oppl, S. (2017). Evaluation of collaborative modeling processes for knowledge articulation and alignment. *Information Systems and E-Business Management*, 15(3), 717–749. <http://doi.org/10.1007/s10257-016-0324-9>
- Oppl, S., Sary, C., & Vogl, S. (2017). Recognition of paper-based conceptual models captured under uncontrolled conditions. *IEEE Transactions on Human-Machine-Systems*, 47(2), 206-220. <http://doi.org/10.1109/THMS.2016.2611943>
- Oppl, S. (2017). Supporting the collaborative construction of a shared understanding about work with a guided conceptual modeling technique. *Group Decision and Negotiation*, 26(2), 247-283. <http://doi.org/10.1007/s10726-016-9485-7>
- Oppl, S., & Alexopoulou, N. (2016). Linking natural modeling to techno-centric modeling for the active involvement of process participants in business process design. *International Journal of Information System Modeling and Design*, 7(2).
- Oppl, S. (2016). Articulation of work process models for organizational alignment and informed information system design. *Information & Management*, 53(5), 591–608.
- Oppl, S. (2016). Selbstgesteuerte Reflexion und Gestaltung von Arbeitsprozessen. *Momentum Quarterly*, 5(4).
- Sary, C., Neubauer, M., Oppl, S., & Weichhart, G. (2015). Stakeholder-centered Ontologies for Educational Designs. *Ontology of Designing*.

- Oppl, S., & Stary, C. (2014). Facilitating shared understanding of work situations using a tangible tabletop interface. *Behaviour & Information Technology*, 33(6), 619–635.
- Stary, C., & Oppl, S. (2007). Konsistente Navigation in stationären und mobilen web-basierten Lehr- & Lern-Umgebungen. *Z. f. eLearning*, 2(4).

Reviewed Conference Papers

- Oppl, S., Milas, A., Waid, M. (2017). Vielfältiges Lernen in universitären Großlehrveranstaltungen - Effekte von Flipped Classroom Formaten auf Partizipationsmöglichkeiten von Studierenden mit unterschiedlichen Bedürfnissen. Proc. of Momentum Kongress 2017.
- Graf, D., Oppl, S., & Eckmaier, A. (2017). Towards BPM Skill Assessment using Computerized Adaptive Testing. *Proceedings of S-BPM ONE 2017*. ACM Press <http://doi.org/10.1145/3040565.3040567>
- Oppl, S. (2017). Business Process Elaboration through Virtual Enactment. ACM Press *Proceedings of S-BPM ONE 2017*. <http://doi.org/10.1145/3040565.3040568>
- Oppl, S., & Hoppenbrouwers, S. (2016). Scaffolding Stakeholder-Centric Enterprise Model Articulation. In *The Practice of Enterprise Modeling* (LNBIP vol. 267, pp. 133–147). http://doi.org/10.1007/978-3-319-48393-1_10
- Oppl, S. (2016). Towards scaffolding collaborative articulation and alignment of mental models. Proc. of ICKM 2016, *Procedia Computer Science*, 99, 124–145. Elsevier. <http://doi.org/10.1016/j.procs.2016.09.106>
- Oppl, S. (2016). Adopting Concepts of Freinet Pedagogy in Higher Education – A Report on the Design and Evolution of a Didactical Experiment. Proc. of Momentum Kongress 2016.
- Stary, C., Lerchner, H., Krenn, F., Neubauer, M., Oppl, S., & Wachholder, D. (2015). Towards a Stakeholder-Centric Design Language for Open Systems – Learning from Organizational Learning. Proceedings of ECCE 2015.
- Oppl, S. (2015). Articulation of subject-oriented business process models. Proceedings of the 7th International Conference on Subject-Oriented Business Process Management, 1–11, ACM Press.
- Oppl, S. (2015). Arbeitende im Spannungsfeld IT-unterstützter Arbeitsprozesse. Proc. of Momentum Kongress 2015.
- Wachholder, D., & Oppl, S. (2014). Interactive Coupling of Process Models: A Distributed Tabletop Approach to Collaborative Modeling. ECCE '14: Proceedings of the ECCE 2014, 1–8, ACM Press.
- Oppl, S., & Rothschädl, T. (2014). Separation of Concerns in Model Elicitation – Role-Based Actor-Driven Business Process Modeling. In Proceedings of S-BPM ONE 2014, Springer International Publishing.
- Alexopoulou, N., Stary, C., & Oppl, S. (2014). Delineating Worker-Centered Organizational Work: Blending BPMS and Social Software Features. Proceedings of Conference Towards Organization . Advancements in Enterprise Social Networks.
- Neubauer, M., Oppl, S., Stary, C., & Weichhart, G. (2013). Facilitating Knowledge Transfer in IANES - A Transactive Memory Approach. In Innovation through Knowledge Transfer 2012 (Smart Innovation, Systems and Technologies, Vol. 18, pp. 39–50). Springer.

- Wachholder, D., & Oppl, S. (2012). Stakeholder-Driven Collaborative Modeling of Subject-Oriented Business Processes. In *S-BPM ONE - Scientific Research* (pp. 145–162). Springer.
- Oppl, S. (2011). Subject-oriented Elicitation of distributed Business-Process Knowledge. *Proc. S-BPM ONE 2011*, 213(213), 16–33. Springer.
- Oppl, S., & Sary, C. (2011). Effects of a Tabletop Interface on the Co-Construction of Concept Maps. *Proceedings of INTERACT 2011*.
- Oppl, S., & Sary, C. (2011). Towards Informed Metaphor Selection for TUIs. *Proceedings of ACM EICS 2011*, 213(Chapter 2), 16–33. ACM Press.
- Neubauer, M., Sary, C., & Oppl, S. (2011). Polymorph Navigation Utilizing Domain-Specific Metadata: Experienced Benefits for E-Learners. *Proceedings of ECCE 2011*.
- Sary, C., Neubauer, M., & Oppl, S. (2010). Interactive Management of Change. *Proceedings of the International Conference on Knowledge-Based Economy and Global Management*.
- Neubauer, M., Sary, C., & Oppl, S. (2009). Towards Topic Map-based e-Learning Environments. *Proceedings of TMRA 2009*.
- Neubauer, M., Oppl, S., & Sary, C. (2009). Towards Intuitive Modeling of Business Processes: Prospects for Flow- and Natural-Language-Oriented. *Proceedings of Tamodia 2009*, LNCS 5963(Chapter 2), 15–27.
- Oppl, S., & Sary, C. (2009). Tabletop Concept Mapping. *Proceedings ACM TEI '09*, 275, ACM press.
- Oppl, S. (2008). Graspable Work Modeling. *Proceedings of Mensch Und Computer 2008*, Oldenburg Verlag.
- Oppl, S., & Peherstorfer, P. (2007). Human Intervention in cross-organizational Process Development. *Proceedings of ICKM 2007*, (6), 317–326.
- Furtmüller, F. G., & Oppl, S. (2007). A Tuple-Space based Middleware for Collaborative Tangible Interfaces. *Proc. of WETICE '07*, 400–405.
- Oppl, S., Sary, C., & Auinger, A. (2006). Towards Tangible Work Modeling. *Proceedings of Mensch Und Computer 2006*, 400–405.
- Weichhart, G., Sary, C., & Oppl, S. (2006). Modelling of Complex Supply Networks. *Proceedings of WETICE '06*, 265–268.
- Oppl, S. (2006). Towards Intuitive Work Modeling with a Tangible Collaboration Interface Approach. *Proceedings of WETICE '06*, 400–405.
- Oppl, S., & Sary, C. (2005). Towards Human-Centered Design of Diagrammatic Representation Schemes. *Proceedings of TAMODIA 2005*, 55–62.
- Ferscha, A., Holzmann, C., & Oppl, S. (2005). Team awareness in personalised learning environments. *Mobilelearning Anytimeeverywhere*.
- Ferscha, A., Holzmann, C., & Oppl, S. (2004). Context awareness for group interaction support. *Proceedings of MobiWAC 2004*, 88–97.

Reviewed Workshop Contributions

- Oppl, S., & Hoppenbrouwers, S. (2017). Introducing Fundamental Concepts of Process Modeling through Participatory Simulation. *Proceedings of Advanced Information Systems Engineering Workshops (LNBIP vol. 286)*, 110-122. https://doi.org/10.1007/978-3-319-60048-2_11

- Kannengiesser, U., & Oppl, S. (2015). Business Processes to Touch: Engaging Domain Experts in Process Modelling. Demo-Proceedings of BPM 2015.
- Oppl, S. (2013). Towards Role-distributed Collaborative Business Process Elicitation. In A. Nolte, M. Prilla, P. Rittgen, & S. Oppl, Proceedings of the Workshop on Models and their Role in Collaboration (pp. 33–40). ceur-ws.
- Oppl, S. (2009). Konsistente Verwendung von Metaphern als Erfolgskriterium für komplexe Tangible User Interfaces. Workshop-Proceedings Der 9. Fachübergreifenden Konferenz Mensch Und Computer 2009.
- Oppl, S. (2008). Begreifbare Modellierung von Arbeit. Workshop-Proceedings Der 8. Fachübergreifenden Konferenz Mensch Und Computer 2008.
- Oppl, S. (2007). Spielen Sie noch? - Bausteine im Unternehmenskontext. Workshop-Proceedings Mensch Und Computer 2007.
- Stry, C., Stry, E., & Oppl, S. (2006). Inclusive Design of Ambient Knowledge Transfer. Proceedings of 9th ERCIM Workshop "User Interfaces for All," (4397).
- Oppl, S., & Weichhart, G. (2005). Requirements for Collaborative Process Design. Workshop-Proceedings Mensch Und Computer 2005, 197, 15–22.

Book Chapters

- Oppl, S. (2017). Arbeitsprozesse artikulieren - auf dem Weg zu einem gemeinsamen Verständnis. In P. Wimmer (Ed.), *Wissen verändert*.
- Nolte, A., Prilla, M., Rittgen, P., & Oppl, S. (2013). MoRoCo 2013: Models and their Role in Collaboration. In M. Korn, T. Colombino, & M. Lewkowicz (Eds.), *ECSCW Adjunct Proceedings* (pp. 90–97). Dept. of Computer Science Aarhus University.
- Oppl, S. (2012). Unterstützung expliziter Articulation Work - Interaktive Externalisierung und Abstimmung mentaler Modelle. In S. Hölldober et al., *Ausgezeichnete Informatikdissertationen 2010* (Vol. 11, pp. 231–240). Gesellschaft für Informatik (GI).
- Oppl, S., & Stry, C. (2012). Be-greifbare Gestaltung von eLearning-Szenarien. In B. Robben & H. Schelhowe, *Be-greifbare Interaktionen*. transcript Verlag.
- Oppl, S., Steiner, C. M., & Albert, D. (2011). Supporting Self-regulated Learning with Tabletop Concept Mapping. In *Interdisciplinary approaches to technology-enhanced learning*. Waxmann Verlag.
- Oppl, S. (2010). Unterstützung expliziter Articulation Work durch Externalisierung von Arbeitswissen. In M. F. Peschl & H. Risku, *Kognition und Technologie im kooperativen Lernen* (pp. 33–56). Vandenhoeck & Ruprecht.
- Oppl, S., Peherstorfer, P., & Stry, C. (2010). The User Perspective. In N. Mehandjiev & P. Grefen, *Advanced Information and Knowledge Processing* (pp. 133–150). London: Springer.
- Fessl, K., Carpenter, M., Oppl, S., Peherstorfer, P., Bittner, W., Owra, A., et al. (2010). Automotive Industry Case Studies. In *Advanced Information and Knowledge Processing* (pp. 171–198). London: Springer.
- Weichhart, G., Oppl, S., & Waefler, T. (2005). Flexible and responsive cross-organisational Interoperability. In M. Taisch & K. D. Thoben, *Advanced Manufacturing - an ICT and Systems Perspective* (pp. 158–170). Network of Excellence on Intelligent Manufacturing Systems.

Theses

- Oppl, S. (2017). *Facilitating organizational alignment through people-centric articulation of knowledge about work*. Habilitation Thesis. University of Linz.
- Oppl, S. (2010). *Unterstützung expliziter Articulation Work -- Interaktive Externalisierung und Abstimmung mentaler Modelle*. PhD Thesis. Technical University of Vienna.
- Oppl, S. (2007). *Flexibility of Content for Organisational Learning - A Topic Map Approach*. Master Thesis. University of Linz.
- Oppl, S. (2004). *Context-aware Group-Interaction*. Master Thesis. University of Linz.

Editorship

- Nolte, A., Prilla, M., Rittgen, P., & Oppl, S. (2013). Proceedings of the Workshop on Models and their Role in Collaboration. (A. Nolte, M. Prilla, P. Rittgen, & S. Oppl). *eur-ws*.
- Oppl, S., & Fleischmann, A. (2012). S-BPM ONE - Education and Industrial Developments. Proceedings of the 4th International Conference on S-BPM. (S. Oppl & A. Fleischmann) (CCIS Vol. 284). Springer.

Academic Prizes and Awards

- Best Paper Award at the 9th International Conference on Subject-Oriented Business Process Management 2017 for contribution “Business Process Elaboration through Virtual Enactment”
- Ars Docendi 2017 Shortlist Nomination for excellent academic teaching in category “Combining digital teaching and learning elements with traditional course formats” for “Advancing Flipped Classroom in the lecture Communications Engineering”
- Erwin-Schrödinger-Fellowship for project proposal “Scaffolds for Work Modeling” granted in 2016
- Best Paper Award at the 6th International Conference on Subject-Oriented Business Process Management 2014 for contribution “Separation of Concerns in Model Elicitation – Role-Based Actor-Driven Business Process Modeling”
- VÖWA-Wissenschaftspreis 2011, prize for high practical and industrial relevance of PhD-thesis
- Nominee to GI Dissertationspreis 2010, annual award for best PhD-thesis in computer science in German-speaking countries
- Würdigungspreis der Bundesministerin für Bildung, Wissenschaft und Kunst 2005, Austrian federal prize for outstanding graduation, awarded to two students per university and year
- 3 scholarships for excellent performance in undergraduate studies (2002-2004)

Scientific Community Services

- Workshop Chair at S-BPM One 2018
- Co-Organizer of Aeolion-Workshop at IS4IS Summit Vienna 2015
- Organizer of Aeolion-Workshop at ECCE 2014
- Co-Organizer MoRoCo-Workshop at ECSCW 2013
- Organization Chair at S-BPM One 2012

- Member of Organization Committee at Pervasive 2003
- Reviewer for international conferences: ITS 2010-12, INTERACT 2011-15, ECIS 2012, EICS 2012, IUI 2012, NordiCHI 2012-14, S-BPM One 2012, InKT 2013, MoRoCo 2013, MobileHCI 2014, EMMSAD 2014-15, ICIS 2015, BITA 2016, CBI 2016, S-BPM ONE 2017, MKWI 2017
- Reviewer for journals: European Journal of Information Systems, Springer Personal and Ubiquitous Computing, IEEE Transactions on Human-Machine Systems, Emerald VINE Journal of Information and Knowledge Management Systems, Springer International Journal of Educational Technology in Higher Education

Faculty Services

- Member of Selection Board for Professorship “Computational Perception”, Johannes Kepler University of Linz
 - Student Member during 2003/2004
- Deputy Head of Department at Institut für Wirtschaftsinformatik – Communications Engineering, Johannes Kepler University of Linz
 - Position held since 2011
- Deputy Head of Department at Zentrum für Wissensmanagement, Johannes Kepler University of Linz
 - Position held since 2011
- Member of the Curriculum Commission for Business Informatics (Wirtschaftsinformatik), Johannes Kepler University of Linz
 - Full Member from 2013-2016
 - Alternate Member from 2010-2013 and since 2016
- Member of the Curriculum Commission “Universitätslehrgänge”, Johannes Kepler University of Linz
 - Alternate Member since 2013
- Member of Selection Board for Professorship “Supply Chain Management”, University of Applied Sciences Upper Austria
 - 2015
- Member of the Faculty Assembly “Sozial- und Wirtschaftswissenschaften”, Johannes Kepler University of Linz
 - Alternate Member since 2016
- Member of preparation group for re-accreditation of bachelor- and master-curricula Wirtschaftsinformatik
 - 2015-2016
- Member of Habilitation Committee Dr.ⁱⁿ Iris Groher, Johannes Kepler University of Linz
 - 2017
- Member of development team for curriculum on “Agrartechnologie und –management”, University of Applied Sciences Upper Austria
 - 2017-2018

Grants

- IANES – Interactive Articulation, Negotiation and Enactment of Subject-Oriented Business Process Knowledge
 - EU FP7 PEOPLE IAPP (Industry-Academia Partnerships and Pathways), 2011
 - proposal development lead
 - overall funding approx. EUR 1,6 Mio
- FARAW – Facilitating Articulation and Reflection about Work
 - EU LLL LdV ToI (Transfer of Innovation in Vocational Training Institutions), 2012
 - proposal development lead
 - overall funding approx. EUR 300.000,-
- SURGEOM 2013 – Subject-driven Role-guided Externalization of Organizational Models
 - EU LLL ERASMUS IP (Intensive Programme), 2012
 - proposal development lead
 - overall funding approx. EUR 40.000,-
- SURGEOM 2014 – Subject-driven Role-guided Externalization of Organizational Models
 - EU LLL ERASMUS IP (Intensive Programme), 2013
 - proposal development lead
 - overall funding approx. EUR 40.000,-
- FLY – Financial Literary for You
 - EU Erasmus+ Strategic Partnership, 2014
 - contributions to proposal as project partner
 - partner funding approx. EUR 55.000,-
- Scaffolds for Work Process Modeling
 - FWF Erwin-Schrödinger-Fellowship, 2015
 - sole proposal author
 - overall funding approx. EUR 34.000,-

Participation in Academic Projects

- MobiLearn
 - NML (Neue Medien in der Lehre – Austrian funding scheme for development of innovative teaching)
 - 2003-2005
 - support of project coordinator, staff researcher
- CrossWork – Cross-Organisational Workflow Formation and Enactment
 - EU FP6 ICT
 - 2004-2006
 - local partner coordinator, staff researcher
- SUDDEN – SMEs Undertaking Design of Dynamic Ecosystem Networks
 - EU FP6 ICT
 - 2006-2009
 - local partner coordinator, staff researcher
- TM4Scholion – A topic map engine for flexible content in learning support systems
 - internal project at the Department of Business Information Systems at JKU
 - 2006 – 2007

- researcher, lead developer
- Comprehend – A tangible tabletop interface supporting explicit articulation work
 - internal project at the Department of Business Information Systems at JKU
 - since 2006 (PhD project until 2010, continued as an internal project later on)
 - principal investigator, lead developer (until 2010)
- SMARTtransformation
 - FFG Basisprogramm (Austrian national funding scheme for applied research)
 - 2010-2011
 - project member
- IANES – Interactive Articulation, Negotiation and Enactment of Subject-Oriented Business Process Knowledge
 - EU FP7 PEOPLE IAPP (Industry-Academia Partnerships and Pathways)
 - 2011-2015
 - coordinator and principal investigator
- FARAW – Facilitating Articulation and Reflection about Work
 - EU LLL LdV Tol (Transfer of Innovation in Vocational Training Institutions)
 - 2012-2014
 - coordinator and principal investigator
- SURGEOM – Subject-driven Role-guided Externalization of Organizational Models
 - EU LLL ERASMUS IP (Intensive Programme)
 - 2012-2014
 - coordinator, head of curriculum development, and teacher
- AEOLION - Articulation Engineered for Organizational Learning in Interoperable, Open Networks
 - internal project at the Department of Business Information Systems at JKU
 - since 2014
 - project member
- Computerized Adaptive Testing Platform
 - internal project at the Department of Business Information Systems at JKU in cooperation with the Department of Educational Psychology at JKU
 - since 2015
 - coordinator, lead developer
- Scaffolds for Work Process Modeling
 - FWF Erwin-Schrödinger-Fellowship
 - 2016-2017
 - coordinator and principal investigator

Teaching

The following list outlines all academic courses Stefan Oppl has given. The courses are categorized along the curricula they are part of. For each course, the number of times it has been held is given as well as the course format (lecture, lab, seminar, proseminar, etc.) and the number of ECTS awarded to students for successful completion. The second part lists all diploma, master and bachelor theses Stefan Oppl has (co-)supervised. In the last part of the section, his contributions to curriculum and course design are listed.

Courses held at the Johannes Kepler University of Linz

Wirtschaftsinformatik (Diploma, Bachelor, Master)

- VL Prozess- und Kommunikationsmodellierung
 - lecture, bachelor level
 - 3 ECTS
 - held 7 times (taught in English once)
- UE Prozess- und Kommunikationsmodellierung
 - lab, bachelor level
 - 3 ECTS
 - held 12 times
- VL Communications Engineering
 - lecture, bachelor level
 - 3 ECTS
 - held 7 times
- UE Communications Engineering
 - lab, bachelor level
 - 3 ECTS
 - held 9 times
- SE Communications Engineering
 - seminar, diploma program
 - 3 ECTS
 - held 7 times
- PS Communications Engineering
 - proseminar (introduction to scientific work practices), bachelor level
 - 3 ECTS
 - held 13 times
- KT Communications Engineering
 - competence training (development of practical IT skills), bachelor level
 - 3 ECTS
 - held once
- PJ IT-Projekt Wirtschaftsinformatik
 - IT project (group work to solve practical problems), bachelor level
 - 6 ECTS
 - supervised 13 projects with 31 participants over 12 terms
- PE Spezielle Wirtschaftsinformatik – Theorie und Praxis
 - bachelor seminar, bachelor level
 - 12 ECTS
 - held 4 times
- KV Advanced Business Engineering & Management
 - combination of lecture and lab, master level
 - 3 ECTS
 - held 3 times
- PR Business Engineering & Management
 - solving practical socio-technical problems, master level
 - 6 ECTS
 - supervised 27 projects with 47 participants over 19 terms

- SE Diplomandenseminar
 - diploma / master seminar, master level
 - 12 ECTS
 - held once

Wirtschaftswissenschaften (Diploma)

- SE Wissensmanagement
 - seminar, diploma program
 - 3 ECTS
 - held once

Angewandtes Wissensmanagement (Master)

- Konzeptionen von Wissensmanagement und deren Einsatzmöglichkeiten
 - combination of lecture and lab, master level
 - 3 ECTS
 - held once
- Web-basiertes Contentmanagement
 - combination of lecture and lab, master level
 - 3 ECTS
 - held 4 times
- Web Engineering
 - combination of lecture and lab, master level
 - 1,5 ECTS
 - held once
- Techniken der sozialen Vernetzung
 - combination of lecture and lab, master level
 - 1,5 ECTS
 - held 5 times

Courses held at the University of Applied Sciences Upper Austria

Aside his teaching at JKU, Stefan Oppl has given courses at the University of Applied Sciences Upper Austria since summer term 2007. The following list gives an overview about the taught courses:

Marketing and Electronic Business (Bachelor)

- Übung IT 1 – Internet Grundlagen
 - lab, bachelor level
 - 1,5 ECTS
 - held 5 times
- Vorlesung IT 3 – Daten Management 2 (Betriebliche Datenverwaltung)
 - lecture, bachelor level
 - 1,5 ECTS
 - held 10 times (5 terms for full-time and part-time students)
- Übung IT 3 - Daten Management 2 (Betriebliche Datenverwaltung)
 - lab, bachelor level
 - 1,5 ECTS
 - held once
- Vorlesung IT 4 – Mobile Computing
 - lecture, bachelor level

- 1,5 ECTS
- held 10 times (5 terms for full-time and part-time students)
- Übung IT 5 – Internet Security
 - lab, bachelor level
 - 1,5 ECTS
 - held 10 times (5 terms for full-time and part-time students)
- Seminar Bachelorarbeit 1 (held 5 times)

Digital Business Management (Master)

- Vorlesung Web Engineering
 - lecture, master level
 - 3 ECTS
 - held twice

Kommunikation, Wissen, Medien (Bachelor)

- Übung Wissensmanagement
 - lab, bachelor level
 - 1,5 ECTS
 - held once

Global Sales Management (Bachelor)

- Vorlesung IT 1 – IT Grundlagen
 - lecture, bachelor level, taught in English
 - 1,5 ECTS
 - held 3 times
- Übung IT 1 – Algorithmen und Datenstrukturen
 - lab, bachelor level, taught in English
 - 3 ECTS
 - held 6 times (3 terms with two groups each term)
- Übung IT 2 – Standardsoftware
 - lab, bachelor level, taught in English
 - 3 ECTS
 - held 4 times

(Co-)Supervised Theses

The following theses have been (co-)supervised by Stefan Oppl. Co-supervision was done with his supervisor Christian Stary for all diploma- and master-theses listed below in the curricula of Wirtschaftsinformatik and Wirtschaftswissenschaften at JKU.

Bachelor Theses Wirtschaftsinformatik (JKU)

- Thomas Amering: Augmented Reality Systeme zur Unterstützung von manuellen Prozessen im Produktionsbereich, 2016
- Gerald Birklbauer: Cognitive Load in Conceptual Modeling, 2017
- Michael Donabauer: Evaluierung eines Flipped Classroom Lehrveranstaltung, 2017
- David Graf: Computerized Adaptive Testing to assess abstraction modelling skills in Business Process Modeling, 2016
- Sebastian Hochgatterer: Virtualisierung der IT-Labor-Infrastruktur, 2011
- Alfred Hochleithner: Virtualisierung als Mittel zur Erstellung vorbereiteter IT-Umgebungen, 2012
- Dominik Kaar: Semantic XML Model Diff, 2013

- Stefan Kaindlbinder: Analyseframeworks zur Beurteilung kollaborativer Wissenskonstruktion, 2015
- Florian Kiesl: Supporting students while learning with time-based media, 2017
- Ilko Kovacic / Raul Longodor: Entwicklung von Interaktionskonzepten für die gestenbasierte und kollaborative Modellierung, 2013
- Romana Lechner: Ein Vorgehensmodell für die Sammlung von Informationen zur Konfiguration von Chatbots, 2017
- Irene Löffler: Evaluierung einer Lernmethode zur Entwicklung von Modellierungskompetenz, 2014
- Christian Mayrhofer: Freinet & IKT, 2013
- Alexander Mitterhumer: Modellierung von Arbeitsprozessen durch Laienmodellierer, 2015
- Wolfgang Peinbauer: Benutzerstudie – sekundärer Bildschirm @ Comprehand, 2011
- Philip Plecr: Scaffolding zur Vermittlung wissenschaftlicher Arbeitstechniken, 2017
- Florian Reisinger: Integration von Legacy-Systemen in Aeolion, 2016
- Ioan Alexandru Schärfl: Scaffolding für Modeling-Facilitators, 2014
- Hanna Schrems: Scaffolding through Gamification for the modelling language Archimate, 2017
- Ricarda Vierlinger: Verfahrensentwicklung zur Metamodellerhebung, 2011
- Dominik Wachholder: Tangible Browsing and Selection, 2013
- Marlene Winkler: Unterstützung von Lernen über Arbeitsprozesse durch Reflective Practice mittels Workplace Mentoring, 2016
- Peter Zechner: Aufbau von Lernateliers mit Hilfe der Lernplattform Nymphaea, 2012

Diploma/Master Theses Wirtschaftsinformatik (JKU)

- Sara Bartos: Inquiry-based Learning mit OpenCroquet, 2008
- Stefan Berger-Schützeneder, Gernot Hammerle: Konzeption und Implementierung eines Informationsportals anhand der Communications Engineering Website, 2007
- Eva Doppelhammer: Konzept und prototypische Implementierung eines Plugins zum Erfassen von Metadaten und deren Repräsentation in einem Wiki, 2007
- Franz Emberger: Energy Efficiency in Small-Scale Server Settings, 2013
- Thomas Feiner: Modelleditor auf Basis dynamischer Metamodelle zur Unterstützung partizipativer Modellerfassung und –reflexion, 2008
- Matthias Freudenberger: Implementierung eines Werkzeuges zur kooperativen, verteilten Erstellung semantisch offener Modelle, 2011
- Florian Furtmüller: Implementierung eines Frameworks für berührbare Benutzungsschnittstellen, 2007
- Bernhard Hirsch: Entwicklung einer ECM-Lösung mit semantischen Dokumentenbeziehungen und kontextabhängiger Datenpublikation, 2009
- Felix Hochleitner: Validation of Business Process Models Through Virtual Enactment, 2017
- Helge Hosiner: Implementierung eines Bibliotheksprogrammes CE-Biblio+ unter Verwendung von Workflow- und Usability-Methoden, 2011
- Linus Jiryes: Quality Indicators for Selecting a Modeling Approach Based on Model Quality Frameworks, 2012
- Gerald Kernstock: Eine Ontologie zur Beschreibung von Arbeitsabläufen, 2013
- Manuela Maier: Organizational Memories – Konzepte und Realisierungen, 2008

- Georg Mayrhauser: Abbildung der Content-Struktur einer E-Learning-Plattform auf semantische Netze, 2010
- Matthias Neubauer: Abbildung generischer Modeller auf Topic Maps, 2008
- Armin Sanders: Ein Portalentwicklungszyklus dargestellt anhand der Neukonstruktion der Seiten „Aufbaustudium Angewandtes Wissensmanagement“ und „Zentrum für Wissensmanagement“, 2008
- Günther Seiringer: Entwicklung eines Editors für die Erstellung und Visualisierung von Topic Maps, 2008
- Maximilian Silber: Semantic Interpretation of Spatial Arrangements of card-based Conceptual Models, 2017
- Hans-Peter Wagner: Grafische und diagrammatische Arbeitsmodellierungssprachen – Konzepte und Realisierungen, 2009
- Patrick Wahlmüller: Evaluation eines Werkzeugs zur Unterstützung von Articulation Work in der Praxis, 2010
- Nicole Wolfsteiner: Gestaltung eines Freinet-orientierten eLearning-Kurses, 2015

Diploma Theses Wirtschaftswissenschaften (JKU)

- Stanislava Kobzova: Abbildung individueller Sichtweisen auf Arbeitsabläufe und deren Zusammenhänge in Organisationalen Gedächtnissystemen, 2013

Bachelor Theses Marketing and Electronic Business (FH OÖ)

- Martin Daxinger: Web Usability in Banking, 2015
- Elisabeth Dirneder: Online-Marketing im B2B-Bereich: Eine strukturierte Beschreibung von Online-Marketing-Instrumenten, 2017
- Tobias Hinterdorfer: Fraud im Online Banking, 2016
- Stefan Kagerhuber: IT-Outsourcing: Modelle, Ziele, Chancen und Risiken in der Implementierung, 2016
- Christoph Rampetsreiter: Potential der elektronischen Datenübertragung mittels XML im Laborbereich, 2009
- Nicole Reitmayr: Dezentrales Dokumentenmanagement – mittels ECM über die Unternehmensgrenzen hinweg, 2009
- Jürgen Rührnössl: Digitalisierung im Messewesen - Potenziale und Herausforderungen durch Interaktion und Kommunikation mit mobilen Anwendungen, 2017
- Martin Wiesinger: Anforderungen an ein Social Network Service zur Unterstützung von kollaborativen Arbeitsprozessen, 2012
- Nino Vecchiato: Virtuelle Teams - Einführung und Aufbau standortübergreifender Arbeitsgruppen, 2017
- Magdalena Zauner: Erkennen von Schwachstellen von Websites mithilfe von Web Analytics, 2017

Bachelor Theses Kommunikation, Wissen, Medien (FH OÖ)

- Christian Obermayr: Selbstreguliertes Lernen mit Hilfe von Methoden des "Scaffolding" in Computer-basierten Lernumgebungen, 2011
- Christoph Zaiko: Lernen im Prozess der Arbeit, 2011
- Martin Ziegler: Concept Mapping zur Unterstützung von modellbasiertem Lernen, 2011

Master Theses Digital Business Management (JKU/FH OÖ)

- Dieter Böhm: Functional Size Measurement im agilen Vorgehensmodell SCRUM, 2016

- Martina Reifetshammer: Geschäftsmodell-Erweiterung der VKB-Bank um Online Kanäle, 2014
- Johannes Schuhmann: Mobile Payment – Akzeptanz von Technologien und Geschäftsmodellen, 2013

Master Theses Supply Chain Management (FH OÖ)

- Jürgen Steinbichler: Neue Geschäftsmodelle in bestehenden Unternehmen – Die digitale Transformation , 2016

Curriculum and Course Development

Aside his teaching activities, Stefan Oppl was also engaged in curriculum and course development during his career so far. The following list summarizes all activities, in which curricula or courses were designed from ground up or underwent a major re-design in terms of teaching methodology or content.

Curriculum-level development

- **Erasmus Intensive Programme SURGEOM (2012-2014):** Leading the development of a two-week international summer school curriculum on subject-centric elicitation of organizational work models. Responsible for the overall course design, co-ordinating the individual teacher's contributions and contributing to teaching.
- **Re-Accreditation of Curriculum "Wirtschaftsinformatik" Bachelor & Master (2015-2016):** Participation in the preparatory team for the re-accreditation (by AQAS quality assurance agency) of the bachelor and master curricula of business informatics at Johannes Kepler University Linz. Contributions to reporting on curriculum structure, students' questionnaires and alumni career statements.
- **FH-Curriculum "Agrar-Technologie & -Management" (2017-18):** Participation in the development team for a novel curriculum on agricultural technology and management to be offered by the university of applied sciences Upper Austria. Contributions to modules "technical foundations" and "digitization in agriculture".

Course-level development

- **Proseminar Communications Engineering (since 2010):** Design of a competence-oriented seminar in the bachelor curriculum Wirtschaftsinformatik at JKU on fundamental scientific work practices designed to facilitate self-directed and collaborative learning and skill development.
- **Mentoring concept for labs Communications Engineering and Prozess- und Kommunikationsmodellierung (2010-2015):** Contribution to the design of an experiential learning concept based on mentoring small groups of collaborating students in the two labs of the Department of Business Information Systems – Communications Engineering in the bachelor curriculum Wirtschaftsinformatik at JKU.
- **Lecture recording infrastructure for courses of the Department of Business Information Systems – Communications Engineering (since 2010):** Concept development, implementation and maintenance of the CE Mediathek (<http://mediathek.ce.jku.at>) to host video recordings of courses for on-site viewing and podcast delivery. Iterative development of portable recording setups that allow

for course recording by the lecturer on various levels of sophistication (e.g., audio only, screen+audio, screen+camera+audio).

- **Course Techniken der Sozialen Vernetzung for Applied Knowledge Management (since 2008):** Development of an experiential-learning based course on socio-technical instruments for collaboration in an organizational context.
- **Course Web-based Content Management for Applied Knowledge Management (since 2009):** Development of a course block on Semantic Networks and Topic Maps. Creation of lecture notes and development of the pedagogical concept.
- **Lecture and lab Communications Engineering (since 2016):** Re-design of a module (lecture + lab) in the bachelor curriculum Wirtschaftsinformatik at JKU on distributed socio-technical system design. Implementing a flipped-classroom-approach for the lecture, which is intertwined with the phases of practical exploration embedded in the lab. Updating the content of the lecture and writing new lecture notes to be published as an Open Educational Resource.
- **Lecture and lab Prozess- und Kommunikationsmodellierung (since 2017):** Re-design of a module (lecture + lab) in the bachelor curriculum Wirtschaftsinformatik at JKU on business process modelling fundamentals. Implementing a flipped-classroom-approach for the lecture, which is intertwined with the phases of practical exploration embedded in the lab. Updating the content of the lecture and writing new lecture notes to be published as an Open Educational Resource.

Talks, Demos and Practitioner Workshops

The following lists contain all talks, demos and practitioner workshops given by Stefan Oppl. They are categorized in presentations given at scientific conferences, talks given in the course of scientific colloquia (i.e., (semi-)public scientific talks not accompanied by a written article), as well as talks, demos and practitioner workshops given for a non-academic audience. All contributions are ordered by date in each category with the most recent on top.

Presentations at scientific conferences

- Vielfältiges Lernen in universitären Großlehrveranstaltungen. Presented at Momentum Kongress 2017, Hallstatt, Austria.
- Introducing Fundamental Concepts of Process Modeling through Participatory Simulation, Presented at T4SIS4T Workshop at CAISE 2017, Essen, Germany.
- Scaffolding Stakeholder-Centric Enterprise Model Articulation, Presented at PoEM 2016, Skövde, Sweden.
- Towards scaffolding collaborative articulation and alignment of mental models. Presented at ICKM 2016, Vienna, Austria.
- Adopting Concepts of Freinet Pedagogy in Higher Education – A Report on the Design and Evolution of a Didactical Experiment. Presented at Momentum Kongress 2016, Hallstatt, Austria.
- AEOLION - Articulation Engineered for Organizational Learning in Interoperable, Open Networks, Presented at ISIS Summit 2015, Vienna, Austria.
- Arbeitende im Spannungsfeld IT-unterstützter Arbeitsprozesse, Presented at Momentum Kongress 2015, Hallstatt, Austria.
- Articulation of subject-oriented business process models. Presented at the 7th International Conference on Subject-Oriented Business Process Management 2015, Kiel, Germany.

- Low Cost UX Design in Knowledge Articulation, Presented at Workshop on Low Cost User Experience UX Design at ECCE 2014, Vienna, Austria.
- Towards Role-distributed Collaborative Business Process Elicitation. Presented at the Workshop on Models and their Role in Collaboration at ECSCW 2013, Paphos, Cyprus.
- Facilitating Knowledge Transfer in IANES - A Transactive Memory Approach. Presented at INFER Workshop at the Conference on Innovation through Knowledge Transfer 2012, Bournemouth, UK.
- Subject-oriented Elicitation of distributed Business-Process Knowledge. Presented at S-BPM ONE 2011, Ingolstadt, Germany.
- Effects of a Tabletop Interface on the Co-Construction of Concept Maps. Presented at INTERACT 2011, Lisbon, Portugal.
- Towards Informed Metaphor Selection for TUIs. Presented at ACM EICS 2011, Pisa, Italy.
- Using a Tangible Tabletop Interface to facilitate Articulation Work, Presented at the STELLAR Alpine Rendez-Vous Workshop on Tabletops for Education and Training 2009, Garmisch-Partenkirchen, Germany.
- Unterstützung expliziter Articulation Work. Presented in in the Session on disruptive or seamless HCI in eLearning at IATEL Symposium 2009, Darmstadt, Germany.
- Tabletop Concept Mapping. Presented at ACM Tangible and Embedded Interaction 2009, Cambridge, UK.
- Konsistente Verwendung von Metaphern als Erfolgskriterium für komplexe Tangible User Interfaces. Presented at Workshop “Be-greifbare Interaktion” at Mensch Und Computer 2009, Lübeck, Germany.
- Graspable Work Modeling. Presented at Mensch Und Computer 2008, Lübeck, Germany.
- Begreifbare Modellierung von Arbeit. Presented at Workshop “Be-greifbare Interaktion” at Mensch Und Computer 2008. Berlin, Germany.
- Spielen Sie noch? - Bausteine im Unternehmenskontext. Presented at Workshop “Lebensbegleitendes E-Learning” at Mensch Und Computer 2007. Weimar, Germany.
- Towards Tangible Work Modeling. Presented at Mensch Und Computer 2006, Gelsenkirchen, Germany
- Towards Intuitive Work Modeling with a Tangible Collaboration Interface Approach. Presented at WETICE 2006, Manchester, UK.
- Towards Human-Centered Design of Diagrammatic Representation Schemes. Presented at TAMODIA 2005, Gdansk, Poland.
- Requirements for Collaborative Process Design. Presented at Workshop at Mensch Und Computer 2005, Linz, Austria.
- Team awareness in personalised learning environments. Presented at Mobilelearning Anytimeeverywhere 2004, Rome, Italy.

Talks at scientific colloquia

- Facilitating organizational alignment through people-centric articulation of knowledge about work. Presentation given in the course of defending my habilitation thesis. 2017, Linz, Austria.
- Facilitating organizational alignment through people-centric articulation of knowledge about work. Presentation for members of the Fachbereich BWL/WIN at the Johannes Kepler University of Linz in the course of submitting my habilitation thesis. 2016, Linz, Austria.
- Articulation and Alignment of Knowledge about Organizational Work. Presented at Colloquium of the Faculty of Applied Informatics at the University of Bamberg, 2016, Bamberg, Germany.
- Results from a decade of design science research on supporting reflection-on-action for organizational design via collaborative conceptual modeling techniques. Presented at Colloquium of ICA Research Group at HAN University of Applied Sciences, 2016, Arnhem, Netherlands.
- Unterstützung expliziter Articulation Work - Interaktive Externalisierung und Abstimmung mentaler Modelle. Presented at Colloquium of GI Dissertationspreis 2012, Dagstuhl, Germany.
- Unterstützung expliziter Articulation Work - Interaktive Externalisierung und Abstimmung mentaler Modelle. Presented at Colloquium of the Telecooperation Group at TU Darmstadt, 2011, Darmstadt, Germany.
- Ein Tabletop Interface zur Unterstützung expliziter Articulation Work. Presented at Colloquium of the Department of Interactive Media Systems at the Technical University of Vienna, 2009, Vienna, Austria.

Talks, Demos and Workshops for non-academic audiences

- Arbeitsprozesse artikulieren. Talk and Workshop given at Wissensmanagement-Tage Krems 2015, Krems, Austria.
- AEOLION - Articulation Engineered for Organizational Learning in Interoperable, Open Networks. Demo given at BFI Perspektive 2015, Linz, Austria.
- FARAW – Facilitating Articulation and Reflection about Work. Talk given at EVBB annual conference 2014, Zagreb, Croatia.
- FARAW – Facilitating Articulation and Reflection about Work. Talk and Workshop given as an event of the JKU centre of knowledge management, 2014, Linz, Austria.
- Comprehand – Concepts, Methods and Tools. Invited talk at HAN University of Applied Sciences, 2013, Arnhem, Netherlands.
- Comprehand - Warum sich Menschen bei der Arbeit missverstehen ... und was man dagegen tun kann. Talk and Workshop given in the course of the JKU goes School initiative, 2013, Linz, Austria.
- Mobility heute und morgen. Invited talk given at FWI Event on mobile ERP and CRM solutions, 2013, Vienna, Austria.
- tangible interaction, tangible information - Perspektiven in Österreich? Talk and Demo given at meeting of Initiative Be-greifbare Interaktion Österreich, 2012, Linz, Austria.

- Abstimmung von Arbeitsprozessen mit Comprehand, Talk given at FameLab 2011, Vienna, Austria.
- Tabletop Concept Mapping, Talk and Demo given at OCG Treffpunkt Kulturinformatik 2009, Vienna, Austria.
- A Tabletop Interface to support Concept Mapping. Talk and Demo given at EduMedia 2009, Salzburg, Austria.
- Tangible Modeling with Comprehand. Demo given at ICKM 2007, Vienna, Austria.