

CURRICULUM VITAE

Antonia Immerz
Dipl. Inf., B.Sc. Biol.

EDUCATION

- 10/2012 – 09/2016 University of Bremen, B.Sc. Biology
Minor: Computer Science
Thesis: „Abundance and Distribution of Chaetognaths in the Arctic“,
Alfred Wegener Institute, Bremerhaven
- 10/2000 – 03/2007 University of Augsburg, Dipl. Inf. Applied Informatics
Major: Software Techniques and Databases
Minor: Business Studies
Thesis: “Facilitating robot programming using visual servoing techniques”,
KUKA Roboter GmbH, Augsburg
- 04/2003 – 09/2005 University of Augsburg, B.Sc. Informatics and E-Commerce

PROFESSIONAL EXPERIENCE

- Since 09/2010 **Scientist and Software Engineer**, Alfred Wegener Institute, Bremerhaven,
Tsunami Modelling Group
Projects:
- RIESGOS (Multi-Risk Analysis and Information System Components for the Andes Region) (www.riesgos.de/)
 - Development of web GIS application providing tsunami simulations
 - Project meetings at SHOA (Chilean Navy Hydrographic and Oceanographic Service) and UTFSM (Universidad Técnica Federico Santa María), Valparaíso and Santiago/Chile
 - Capacity building and developments for InaTEWS (Indonesia Tsunami Early Warning System) operated at BMKG (Indonesian Agency for Meteorology, Climatology and Geophysics) in Jakarta/Indonesia
Related Projects:
 - GITEWS (German-Indonesian Tsunami Early Warning System) (www.gitews.de)
 - PROTECTS (PROject for Training, Education and Consulting for Tsunami Early Warning Systems)
 - project funded by Geoscience AustraliaResponsibilities:
 - Database setup and interface development for tsunami simulation data products
 - Preparation and realisation of workshops and trainings at BMKG
 - ESKP (Earth System Knowledge Platform) (www.eskp.de)
 - Extension of GISViewer application at maps@awi (maps.awi.de)
 - Setup of databases and GIS services Tsunami-WebGIS (maps.awi.de/map/map.html?cu=tsunami_simulations_in_indonesia)
 - GFBio (German Federation for Biological Data)
 - Transfer of concepts for storing biological meta data to database
 - Conceptual design of a service level agreement

- 04/2010 – 09/2010 **Scientist and Software Engineer**, Bundeswehr University Munich, Cooperation Systems Center
- Partial project leadership in European research project: development of a multimedia device for senior citizens integrating social software services
 - Mashup service development
- 08/2008 – 03/2010 **Software Engineer**, mgm technology partners GmbH, Munich,
- Conceptual design and implementation of web forms
 - Support of quality management for designing test cases, conceptual design and performance of manual tests
- 09/1999 – 03/2001 Temporary worker in various companies and industries

EXPEDITIONS

- 05/2015 – 06/2015 RV Polarstern (PS92)
- Support deploying the M-RMT, sorting and conservation of catch of M-RMT and SUIT hauls
 - Deployment of Multi-Net and conservation of catch
 - Filtration of CTD samples
- 04/2012 - 05/2012 RV Polarstern (ANT-XXVIII/5)
- Development of web application facilitating the creation of configuration files to transfer sensor data between marine electronics

TEACHING SKILLS

- 2011 – 2014 Supervision of 2 interns and 2 student research assistants
2002 Tutor for Business Informatics, University of Augsburg

INTERNATIONAL EXPERIENCES

- 2010 – 2017 16 trainings and workshops (1-2 weeks each) at BMKG in Jakarta/Indonesia
03/2007 – 06/2008 Study trip to South America (02/2008 – 03/2008: Volunteer in Recreation Center for wild animals, Inti Wara Yassi, Santa Cruz/Bolivia)

IT SKILLS

- GIS: ArcGIS, Qgis, Leaflet.js
Databases: PostgreSQL, PostGIS, Microsoft Access
Web Programming: JavaScript, PHP, XML, HTML, CSS
Object-Oriented Programming: Java, .NET-Languages
Application Server: Apache, Tomcat
Statistical Analysis: R, R Shiny
Other: Python

BIOLOGY SKILLS

- Sampling Devices: Multiple Rectangular Midwater Trawl (M-RMT), Surface and Under-Ice Trawl (SUIT), Multi-Net
Laboratory: Sorting and measurement of zooplankton samples, determination of chaetognath maturity stages, C:N analysis, filtration of CTD samples

LANGUAGES

- German (native speaker), English (fluent), Spanish (very good command), French (basic communication skills), Portuguese (basic communication skills)

PUBLICATIONS

Peer-Reviewed

Immerz, A., Harig, S., Rakowsky, N., 2018. Extending and Visualizing the TsunAWI Simulation Database of the Indonesia Tsunami Early Warning System (InaTEWS), in: Krause, G. (Ed.), Building Bridges at the Science-Stakeholder Interface. Springer, Cham, pp. 101-107.

Rakowsky, N., Androsov, A., Fuchs, A., Harig, S., **Immerz, A.**, Danilov, S., Hiller, W., Schröter, J., 2013. Operational tsunami modelling with TsunAWI – recent developments and applications. Natural Hazards and Earth System Science 13, 1629-1642.

Androsov, A., Harig, S., Fuchs, A., **Immerz, A.**, Rakowsky, N., Hiller, W., Danilov, S., 2013. Tsunami Wave Propagation, in: Zheng, Y. (Ed.), Wave Propagation Theories and Applications. INTECH, Croatia, pp. 43-72.

Lachenmaier, P., Ott, F., **Immerz, A.**, Richter, A., 2011. CommunityMashup a flexible social mashup based on a model-driven-approach, 2011 IEEE International Conference on Information Reuse & Integration, pp. 48-51.

Other Publications

Immerz, A., 2016. Abundance and Distribution of Chaetognaths in the Arctic. University of Bremen, Alfred Wegener Institute.

Tsunami-WebGIS: [http://maps.awi.de/map/map.html?cu=Tsunami Simulations in Indonesia](http://maps.awi.de/map/map.html?cu=Tsunami_Simulations_in_Indonesia)

For conference presentations and outreach see <http://epic.awi.de/view/ldapid/aimmerz.html>