Fabio Rinaldi: Curriculum Vitae, October 2023

Current positions

2019-present Dalle Molle Institute for Artificial Intelligence Research (IDSIA), Lugano, Switzerland, *senior researcher, group leader NLP research (50% initially, 100% from 2021).*
2021-present Department of Quantitative Biomedicine, Univ. Zürich (Prof. Krauthammer), *associated researcher, 5%*
2019-present Fondazione Bruno Kessler (FBK), Trento (IT), f*ellow* (courtesy appointment)
2016-present Swiss Institute of Bioinformatics (SIB), *group leader* (courtesy appointment)

Education

2008 PhD in Computational Linguistics (University of Zurich, Switzerland)
1995 BSc+MSc ("Laurea") in Computer Science (University of Udine, Italy)

Professional and academic experience

2005-2020 Institute of Computational Linguistics, University of Zurich, Switzerland, *senior researcher, lecturer, principal investigator (50% position)*
2017-2019 Fondazione Bruno Kessler (FBK), Trento (IT), *researcher* (temporary position at 30%)
2015-2018 Center for Comp. Genomics, Nat. Autonom. University of Mexico (UNAM), *visiting research professor*
2000-2005 Institute of Computational Linguistics, University of Zurich, Switzerland, *project manager, team leader*
1996-1999 UMIST (now part of the Univ. of Manchester), Manchester, UK, r*esearch assistant*
1995 GMD/IPSI (now closed), Darmstadt, Germany, *guest researcher*
1993-1995 ITC/IRST (now FBK), Trento, Italy, *student assistant*

Mentorship activities

Supervised PostDoc in projects as PI: Dina, Vishnyakova (2016-2018), Gerold Schneider (2009-2013), Simon Clematide (2009-2014), Gintaré Grigonyté (2012); **Supervised PhD students**: Lenz Furrer (2015-2020), Tilia Ellendorff (2013-2019). **Supervised Master students**: Anna Mattiroli (2022-2023), Parijat Ghoshal (2016-2017), Nico Colic (2015-2016), Michal Koltonik (2014). **Other supervision, e.g. semester projects**: Matteo Bresciani (2020), Brian Pulfer (2020), Anastassia Shaitarova (2020), Anna Jancso (2017), Marco Basaldella (2016), Hernani Marques Madeira (2013-2014), Adrian van der Lek (2015-2016), Zhu Yi (2014), Simon Hafner (2012), Kaarel Kaljurand (2005-2009). **Member of PhD Dissertation Committee:** Jiyu Chen, Univ. Melbourne, Oct 2023 (supervisor: Prof. Karin Verspoor). Silvia Casola, Univ. Padua, Sept 2023 (supervisor: Dr. Alberto Lavelli). Prakhar Gupta, EPFL, Oct 2021 (supervisor: Prof. Martin Jaggi). Farrokh_Mehryary, Univ. of Turku, Finnland. September 2021 (supervisors: Prof. Filip Ginter, Prof. Tapio Salakoski). Dante degli Innocenti, Univ. Udine, Italy, 2017 (supervisor: Prof. Carlo Tasso). Jari Björne, Univ. of Turku, Finland, June 2014 (supervisors: Dr. Filip Ginter, Prof. Tapio Salakoski). Fah Sarafraz, Univ. of Manchester, UK, February 2012 (supervisor: Dr. Goran Nenadic). Qi Wei, National Instit. of Informatics, Tokyo, Japan, December 2011 (supervisor: Prof. Nigel Collier).

Teaching duties

Courses held at SUPSI: Natural Language Processing (2023, will be repeated each year).

At the University of Zurich I taught two full courses per year from 2005 to 2019 (with a couple interruptions due to periods abroad), involving at least 12 lectures of 90 minutes each. All courses were in English.

Language Technology and Web Applications (2019); Information Extraction and Text Mining (2012, 2013, 2014, 2016, 2017, 2018); XML and Semantic Web (2012, 2013, 2014, 2016, 2017, 2018, 2019); PCL3: Database fundamentals and Web Interfaces (2016); Logic Programming for Knowledge Representation (2015); XML: Fundamentals and Applications (2005, 2006, 2007, 2008, 2010, 2011); Corpus Linguistics (2007, 2008, 2009, 2011); Text Mining (2006, 2007, 2008); Question Answering Research Seminar (2005)

Research projects as leading investigator

Since the beginning of my research activity in Switzerland I have obtained nearly 4 M CHF in research funding, from the following sources: Swiss National Science Foundation (1 million CHF), Industry (800 kCHF), EU (400 kCHF), InnoSuisse (420 kCHF), ArmaSuisse (700 kCHF), other (600 kCHF). Since I joined IDSIA I am responsible for fully supporting my research group through grants (500 kCHF per year).

2023 *Other minor grants (Hasler foundation, LeadingHouse Asia, InnoSuise):* **150 kCHF**
2022-2023 *PREGAMUS: Platform for an Epidemic-Related Guard Against Misinformation*, Funding (Hasler): **50 kCHF**
2021-2023 *ArthroMine (subcontract agreement Prof. Waterhouse, UNIL)*, Funding (SNF): **200 kCHF**
2021-2023 *MisInfo: Rapid Identification of Misinformation in social media*, **PI,** Funding (ArmaSuisse): **345 kCHF**
2021-2023 *INCdid/ELDI: Fast discrimination between dialects*, **PI,** Funding (ArmaSuisse): **350 kCHF**
2021 *BERGAMOS: Biomedical Entry Repository for General Annotations that are Machine-readable, Open and Searchable.* Collaborative project with DBCLS (Japan). Funding (SERI / Leading Agency Asia): **25 kCHF**.
2019 *Collaboration with the Human Resources team at Novartis.* Funding for my group: **150 kCHF.**
2018-2019 *MedMon – Monitoring of Internet Resources for Pharmaceutical Research and Development*, **PI**. Collaboration with Roche AG and HTW-Chur, funded by CTI. Total budget: 881 kCHF. Funding for my group: **249 kCHF**.
2016-2019 *MelanoBase: large-scale text mining for database integration, with the use-case scenario of Melanoma*, **PI**. Funding: **420 kCHF** (SNF), entirely for my group.
2015-2017 *PsyMine: Text mining in support of psychiatric research: overcoming fragmented knowledge*. Collaboration the Institute of Epidemiology, UZH. Funding: 188 kCHF (COGITO Foundation). Funding for my group: 115 kCHF.
2013-2014 *Detection of Protein Interactions in large-scale document collections*, **PI**, project funded by Roche AG. Funding: 50 kCHF.
2010-2014 *Semi-Automated Semantic Enrichment of the Biomedical Literature* (SASEBio), **PI**. SNF Funding: 278 kCHF. Additional funding (100 kCHF) provided by Novartis Pharma AG.

Prizes, awards, fellowships

2010 ARE-BM "*Advanced Relation Extraction in Biomedicine*" (Marie-Curie advanced fellowship). Main author of the proposal, with Dr. Dietrich Rebholz-Schuhmann (EBI, UK) and Prof. Larry Hunter (University of Colorado at Denver). Total funding: 335,453 EUR, 36 months. DECLINED, due to incompatibility with my position as leader of the SASEBio project, and risk of not being able to apply for Swiss citizenship.
2009 *A Comparative Study of Syntactic Parsers and their Applications in Biomedical Text Mining* (SNF Early Postdoc Mobility fellowship). Author of the project proposal. SNF funding: 70,000 CHF

Organisation of conferences

SMBM 2010 (organizing co-chair), SMBM 2012 (chair of local organization committee), LBM 2013 (scientific co-chair). SMBM 2014, 2016 (scientific co-chair), LOUHI 2018,2019,2020,2021,2022 (co-organizer), SwissText 2022 (scientific chair and local organization).

Outreach and contribution to open science, invited presentations

I have organized or contributed to the organization of several events to promote scientific dissemination. For example in June 2021 I organized the first Swiss workshop on NLP Efforts against COVID19 in Switzerland, SwissText 2021 (Jun 14, 2021). Some other recent events in which I contributed are listed here: Keynote presentation at the Social Media Mining for Health (#SMM4H) workshop (COLING) (Dec 12, 2020), Invited panelist at the text mining event at ISMB 2020 (Jul 14, 2020), First Multilingual clinical NLP workshop: MUCLIN (MIE2020/EFMI) (Jul 4, 2020), Invited panelist at the annual meeting of the Swiss Institute of Bioinformatics (session on scientific responses to COVID19) (June 10, 2020), Keynote presentation at the 6th Biomedical Linked Annotation Hackathon, Tokyo (Feb 4, 2020).
On Nov 23, 2023 I will give an introduction to Large Language Models at an event organized by the Swiss Institute of Bioinformatics.