florian leitner data scientist

| contact | profile | | | |
|--|--|--|-------------------------------|--|
| Address Line E-280XX Madrid | Bioinformatics and molecular biology expert. Statistical learning for data and text mining. Data engineering and information extraction. | | | |
| +34 6XX XXX XXX florian.leitner@gmail.com | Distributed a | stributed and parallel high-performance computing. scellent communication, planning, and organization skills. | | |
| home://fnl.es work://github.com/fnl | experience | | | |
| - | 2015-now | Leitner Cataltyics, S.L. Independent consultant (Data mining & NLP) | Madrid, Spain | |
| languages | | Delivering tailored, cloud-based data mining and natural language solutions to clients world-wide (in Java/Scala, Python, and R | | |
| German: native | 2014–2015 | Technical University of Madrid (UPM) | Madrid, Spain | |
| English: master | | Juan de la Cierva research fellow (Inference engine & NLP de Information extraction for neurobiology with Factorie, Spark, entDB, and R. Statistical analyses (R). Teaching (R, Python, C) | SciKit-Learn, Ori- | |
| Spanish: proficient | 2013–2014 | National Cancer Research Centre (CNIO) Post-doc (Data mining & NLP software development) | Madrid, Spain | |
| computing | | Extraction of the mammalian transcriptome with UIMA, Lucene, C/C++, SciKit-Learn, and D3.js. | | |
| scientific computing: R, SciPy, GNU/POSIX/C | 2006–2013 | National Cancer Research Centre (CNIO) PhD student (Bioinformatics software development) Co. and main organizar of BioCreative (BC) Lead development | Madrid, Spain | |
| data engineering: PostgreSQL, HDFS, | | Co- and main organizer of BioCreative (BC). Lead devel. of the BC meta-server with a dozen intl. teams (Python, Postgres, Java). BioCreative web site and team management interface (Django, Postgres). Analyses and evaluations in R. | | |
| Cassandra | 2003–2006 | Institute for Molecular Pathology (IMP) MSc student (Database administration and software/web dev | Vienna, Austria Velopment) | |
| language processing: StanfordNLP, Factorie, LingPipe, etc. | | Data acquisition from biological resources (Perl, LISP); Web visualization (Stru of those resources. Indexing system and query interface (Lucene). | | |
| | 2003–2003 | CSO Lanifex GmbH Consultant (Linux kernel and Firefox browser customization) | Vienna, Austria | |
| distributed computing: UIMA, Spark, ElasticSearch | | Consultant (Linux kernel and Firefox browser customization, web dev.) Contributions to a VPN network for the Austrian National Bank (Linux kernel and Firefox mods) and the United Nations intranet (PHP, MySQL). | | |
| coftware development | 2002–2003 | | Heidelberg, Germany | |
| software development: JetBrains IDEs, Jenkins/Travis, | | Python/Java application developer 3D visualization of protein structure annotations (Java). Strusearch support using Python. | uctural biology re- | |
| Gradle/Maven, etc. | 2001–2002 | Novartis Research Institute Web developer and database administration Perl-based bioinformatics framework development for a large | Vienna, Austria | |
| | 1997–2000 | Pro-Design Paragliders | Innsbruck, Austria | |
| | | Global sales manager Overseas production and intl. sales. PR, advertisements, sp. untintrea), In house stock management avetem Afguel Region | orts events (prod- | |

uct intros). In-house stock management system (Visual Basic).

education

| 2012 | PhD Bioinformatics, with distinction Online assessment of protein interaction information extraction system | Autonomous University of Madrid (UAM), Spain |
|------|--|--|
| 2006 | MSc Molecular Biology, with distinction Integration of biological databases and mining for post-translational m | Vienna University, Austria nodifications. |
| 1995 | Advertisement & Design School Werbe- und Design Akademie | Innsbruck, Austria |
| 1994 | Business High-school Handelsschule Innsbruck | Innsbruck, Austria |

accomplishments

| 2015 | Apache Spark Big Data and Scalable Machine Learning both completed with 100/100 total scores | edX Berkeley MOOC |
|------|--|---------------------------------------|
| 2014 | Machine Learning completed with 100+/100 total score | Stanford/Coursera MOOC |
| 2013 | Special Award - Premio Extraordinario for my PhD thesis work | Autonomous University of Madrid (UAM) |
| 2012 | Speed Reading accredited final reading speed: 2000 words/minute | Programa Integral de Lectura |
| 2012 | Natural Language Processing completed with 88/100 total score | Stanford/Coursera MOOC |
| 2009 | Main Conference Organizer three-day conference with nearly 100 participants | BioCreative, CNIO, Madrid |
| 2009 | Services Cup 3rd place behind competitors from SAP and IBM | IEEE Services-I World Conference |

communication skills

| Commu | iloation skins | | |
|-----------|--|---|--|
| 2015 | Invited Talk Jornada de Tecnología y Salud, Real Academia de Ingeniería, Madrid, Spain The BioCreative challenges: Critical assessments of biomedical information extraction. | | |
| 2014 | Invited Talk Institute for Computational Linguistics (UZH), Zurich, Switzerland From the BioCreative challenges to transcription regulation network extraction. | | |
| 2014 | Progress Report Retracing transcription regulation networks. | National Cancer Research Centre (CNIO), Madrid, Spain | |
| 2013 | Presentation BioLINK @ Intelligent Systems for Molecular Biology (ISMB), Berlin, Germany Mining cis-regulatory transcription networks from literature. | | |
| 2013 | Panel Host Integration across genomics and medicine. | BioLINK @ Intelligent Systems for Molecular Biology (ISMB), Vienna, Austria | |
| 2011 | Invited Talk Annotating scientific manuscripts and the role of | FEBS Journal Board Meeting, Cambridge, UK of text-mining. | |
| 2010 | Progress Report Making biological information accessible. | National Cancer Research Centre (CNIO), Madrid, Spain | |
| 2010 | Presentation Intelligent Systems for Molecular Biology (ISMB), Stockholm, Sweden Comparative community assessments for applied biomedical text mining. | | |
| 2009 | Presentation The BioCreative Meta-Server platform. | Semantic Mining in Biomedicine (SMBM), Turku, Finland | |
| 2008–2013 | Presentations BioCreative, Madrid, Spain and Bethesda, MD, USA Various presentations throughout the BC II-IV workshops (see conference proceedings). | | |

publications

journal articles

CHEMDNER: The drugs and chemical names extraction challenge

M Krallinger, F Leitner, O Rabal, M Vazquez, J Oyarzabal, A Valencia Journal of Cheminformatics 7.Suppl 1 (2015) S1. 2015

The CHEMDNER corpus of chemicals and drugs and its annotation principles

M Krallinger, O Rabal, F Leitner, M Vazquez, D Salgado, ... J Oyarzabal, A Valencia Journal of Cheminformatics 7. Suppl 1 (2015) S2. 2015

BioC: a minimalist approach to interoperability for biomedical text processing

DC Comeau, R Islamaj Dogan, P Ciccarese, KB Cohen, M Krallinger, F Leitner, ... WJ Wilbur Database 2013 (Sept. 2013) bat064-bat064. 2013

MyMiner: a web application for computer-assisted biocuration and text annotation

D Salgado, M Krallinger, M Depaule, E Drula, A Tendulkar, F Leitner, A Valencia, C Marcelle Bioinformatics (2012) bts435. 2012

How to link ontologies and protein-protein interactions to literature: text-mining approaches and the BioCreative experience.

M Krallinger, F Leitner, M Vazquez, D Salgado, C Marcelle, M Tyers, A Valencia, A Chatr-Aryamontri Database 2012 (2012) bas017. 2012

Text Mining for Drugs and Chemical Compounds: Methods, Tools and Applications

M. Vazquez, M Krallinger, F Leitner, A Valencia Molecular Informatics 30.6-7 (2011) pp. 506–519. 2011

The Protein-Protein Interaction tasks of BioCreative III: classification/ranking of articles and linking bio-ontology concepts to full text

Martin Krallinger, Miguel Vazquez, Florian Leitner, ... Alfonso Valencia BMC Bioinformatics 12. Suppl 8 (2011) S3. 2011

The FEBS Letters SDA corpus.

Florian Leitner, Martin Krallinger, Gianni Cesareni, Alfonso Valencia FEBS Letters 584.19 (Oct. 2010) pp. 4129–4130. 2010

An Overview of BioCreative II.5.

Florian Leitner, Scott A Mardis, Martin Krallinger, Gianni Cesareni, Lynette A Hirschman, Alfonso Valencia IEEE/ACM Transactions on Computational Biology and Bioinformatics 7.3 (June 2010) pp. 385–399. 2010

The PPI affix dictionary (PPIAD) and BioMethod lexicon

M Krallinger, AV Tendulkar, F Leitner, A Chatr-aryamontri, A Valencia BMC Bioinformatics 11 (2010) pp. 1–3. 2010

The FEBS Letters/BioCreative II.5 experiment: making biological information accessible

F Leitner, A Chatr-Aryamontri, SA Mardis, A Ceol, M Krallinger, L Licata, L Hirschman, G Cesareni, A Valencia Nature Biotechnology 28.9 (2010) pp. 897–899. 2010

A text-mining perspective on the requirements for electronically annotated abstracts.

Florian Leitner, Alfonso Valencia

FEBS Letters 582.8 (Apr. 2008) pp. 1178-1181. 2008

Overview of the protein-protein interaction annotation extraction task of BioCreative II.

Martin Krallinger, Florian Leitner, Carlos Rodriguez-Penagos, Alfonso Valencia Genome Biology 9 Suppl 2 (2008) S4. 2008

Evaluation of text-mining systems for biology: overview of the Second BioCreative community challenge.

M Krallinger, A Morgan, L Smith, F Leitner, L Tanabe, J Wilbur, L Hirschman, A Valencia Genome Biology 9 Suppl 2 (2008) S1. 2008

Introducing meta-services for biomedical information extraction.

F Leitner, M Krallinger, C Rodriguez-Penagos, J Hakenberg, ... C Sander, A Valencia

Genome Biology 9 Suppl 2 (2008) S6. 2008

ProSAT: functional annotation of protein 3D structures.

Razif R Gabdoulline, René Hoffmann, Florian Leitner, Rebecca C Wade

Bioinformatics 19.13 (Sept. 2003) pp. 1723-1725. 2003

book chapters

BioCreative II.5 and the FEBS Letters Experiment on Structured Digital Abstracts

Florian Leitner, Martin Krallinger, Valencia Alfonso

Encyclopedia of Systems Biology pp. 101-106, 2013, Springer New York

BioCreative Meta-Server and Text-Mining Interoperability Standard

Florian Leitner, Martin Krallinger, Valencia Alfonso

Encyclopedia of Systems Biology pp. 106-110, 2013, Springer New York

Analysis of Biological Processes and Diseases Using Text Mining Approaches

Martin Krallinger, Florian Leitner, Alfonso Valencia

Methods in Molecular Biology pp. 341-382, 2010, Humana Press

Biological Knowledge Extraction

Florian Leitner, Robert Hoffmann, Alfonso Valencia

Bioinformatics for Systems Biology pp. 413-433, 2009, Humana Press

conference proceedings

Retrieval and Discovery of Cell Cycle Literature and Proteins by Means of Machine Learning, Text Mining and Network Analysis

Martin Krallinger, Florian Leitner, Alfonso Valencia

8th International Conference on Practical Applications of Computational Biology & Bioinformatics, 2014

Overview of the chemical compound and drug name recognition (CHEMDNER) task

Martin Krallinger, Florian Leitner, Obdulia Rabal, Miguel Vazquez, Julen Oyarzabal, Alfonso Valencia BioCreative IV Challenge Evaluation Workshop, 2013

Mining cis-Regulatory Transcription Networks from Literature

Florian Leitner, Martin Krallinger, Sushil Tripathi, Martin Kuiper, Astrid Lægreid, Alfonso Valencia Proceedings of the ISMB BioLINK SIG, 2013

Results of the BioCreative III Interaction Method Task

Martin Krallinger, Miguel Vazquez, Florian Leitner, Alfonso Valencia

Proceedings of the BioCreative III Challenge Evaluation Workshop, 2010

The BioCreative II.5 challenge overview

Martin Krallinger, Florian Leitner, Alfonso Valencia

Proceedings of the BioCreative II.5 Challenge Evaluation Workshop, 2009

BioCreative II.5: Evaluation and ensemble system performance

Scott Mardis, Florian Leitner, Lynette Hirschman

Proceedings of the BioCreative II.5 Challenge Evaluation Workshop, 2009

SOA-Based Integration of Text Mining Services

Johann Starlinger, Florian Leitner, Alfonso Valencia, Ulf Leser

Proceedings of the 2009 World Conference on Services, 2009

Exploiting text mining of biological annotations to extract protein interactions for the Semantic web

Martin Krallinger, Carlos Rodriguez-Penagos, Florian Leitner, Alfonso Valencia

Seventh International Workshop on Network Tools and Applications in Biology, 2007

Assessment of the second BioCreative PPI task: automatic extraction of protein-protein interactions

Martin Krallinger, Florian Leitner, Alfonso Valencia

Proceedings of the second BioCreative Challenge Evaluation Workshop, 2007