

Curriculum Vitae Johann Gamper

Full Professor for Database Systems
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Personal Data

Date of birth 18/04/1962
Place of birth Klausen, Italy
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39012 Meran, Italy
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Education

1976–1981 High school (“Realgymnasium”) in Brixen, Italy
1981–1987 BSc study in Data System Engineering, TU Vienna
1983–1989 Diploma study in Computer Science (5 years, “Diplom-Ingenieur”), TU Vienna. Thesis: HEPAXPERT-I: *An Expert System for Automatic Interpretation of Hepatitis A and B Serology Findings*. (Supervisor: Prof. K.P. Adlassnig)
1993–1996 PhD study in Computer Science (*summa cum laude*), RWTH Aachen. PhD thesis: *A Temporal Reasoning and Abstraction Framework for Model-Based Diagnosis Systems*. (Supervisor: Prof. W. Nejdl)

Present Appointment

Since 10/2018, I am a full professor at the Faculty of Computer Science of the Free University of Bozen-Bolzano (UNIBZ).

Main responsibilities: Vice-Rector for Research and Innovation, member of the Study Committee for the PhD in Computer Science, head of the Database Systems Group.

Professional Experience

2018–	Full professor, Faculty of Computer Science, UNIBZ
2014–2018	Vice-Dean for Studies, Faculty of Computer Science, UNIBZ
2008–2018	Associate professor, Faculty of Computer Science, UNIBZ
2015–	Head of the Database Systems Group, Faculty of Computer Science, UNIBZ
2015	Coordinator of the IDSE research area, Faculty of Computer Science
2003–2008	Assistant professor, Faculty of Computer Science, UNIBZ
2000–2003	Coordinator of the establishment of the Faculty of Computer Science, UNIBZ
1996–2000	Senior researcher and coordinator of the Knowledge Engineering Group, EURAC Research, Bozen-Bolzano
1995–1996	University assistant, Institute for Knowledge-Based Systems, University of Hannover (Prof. W. Nejdl)
1993–1995	ERASMUS scholarship, Institute for Knowledge-Based Systems, RWTH Aachen (Prof. W. Nejdl)
1991–1993	University assistant, Department of Medical Computer Sciences, University of Vienna (Prof. K.P. Adlassnig)
1990–1991	Basic military service, Italy
1989–1990	Scientific collaborator, Department of Medical Computer Sciences, University of Vienna (Prof. Klaus-Peter Adlassnig)
1991–1993	of Vienna (Prof. Klaus-Peter Adlassnig)

Main Research Interests

- Database systems with a focus on managing and processing temporal data
- Data analytics, aggregation and summary structures for multidimensional data
- Approximate matching and similarity search for tree- and graph-structured data
- Query processing in road and transport networks
- In the past: model-based diagnosis and e-learning

Awards

- *VLDB 2017 – PVLDB volume 10 Best Reviewer Award* for outstanding efforts during the reviewing and decision making for papers submitted to PVLDB volume 10.
- *Best paper award*: M. Shekelyan, A. Dignös, J. Gamper. *Sparse prefix sums*. 21st European Conference on Advances in Databases and Information Systems (ADBIS), Nikosia, Cyprus, 2017.
- *Best paper award*: D. Piatov, S. Helmer, J. Gamper. *Interactive time series subsequence matching*. 21st European Conference on Advances in Databases and Information Systems (ADBIS), Nikosia, Cyprus, 2017.
- The following paper was selected for the *21st Annual Best of Computing 2016 – Notable Books and Articles*, by *ACM Computing Reviews*: A. Dignös, M.H. Böhlen, J. Gamper, C.S. Jensen. *Extending the kernel of a relational DBMS with comprehensive support for sequenced temporal queries*. *ACM Transactions on Database Systems (TODS)*, 41(4), 2016.
- *Best paper award*: D.B. Blumenthal, J. Gamper. *Exact computation of graph edit distance for uniform and non-uniform metric edit costs*. 11th IAPR-TC-15 International Workshop on Graph-Based Representations in Pattern Recognition (GbRPR), Anacapri, Italy, 2017.
- *Honorable Mention Award* for the work in the Quality Committee of the Free University of Bozen-Bolzano, awarded by UNIBZ at the Dies Academicus 2016.
- *Honorable Mention Award* for the scientific contributions to database research, awarded by UNIBZ at the Dies Academicus 2015.
- *Outstanding Paper Award*: A. Abel, J. Gamper, J. Knapp, V. Weber. *Describing verb valency in an electronic learner's dictionary: linguistic and technical implications*. World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA), Honolulu, Hawaii, 2003.
- *"Anerkennungspreis 2002 für Forschungs- und Studienprojekte der Eduard-Wallnöfer-Stiftung"* for the ELDIT system, Innsbruck, Austria, 2002.
- *"Borchers-Plakette"* for the excellent research in my PhD thesis, awarded by "Freunde und Förderer der RWTH Aachen", Germany, 1997.

Languages

- German (mother tongue)
- Italian and English (level C1)

Research Projects and Funds

During my time at the UNIBZ, I was able to acquire more than 1.8 Mio. project funding, including funding from the EU (6FP IST STREP, INTERREG-IV), international companies (Oracle Research), national public administrations (Italian Ministry, Health Authority South Tyrol, Municipality of Bozen-Bolzano, Province of Bozen-Bolzano), and local companies (ACS Data Systems, Athesia Group).

Some projects are on *fundamental research* in database systems (e.g., DASTS, AQUiST, TPG, SYRA), while many others are on *interdisciplinary research* with partners from different application domains, such as agriculture (DASA, DASA2), manufacturing (TASMA), e-government (EBZ, EMAYOR, PEOPLE), tourism (O-STAR, FITTS), finance (ISMARD), and medicine (MEDAN).

The interdisciplinary research projects contributed significantly to the *technology and know-how transfer* from the faculty to the local territory and stakeholders.

The research method adopted in my projects aims for *high quality* and combines *foundational studies* with *systems engineering* and *empirical evaluations*. Many projects are done in close *collaboration with leading researchers* in the (temporal) database community. The obtained research results are published in the *most prestigious outlets* of the database systems community. (More about research achievements in the sections “Publications” and “Statement of interest”)

Summary of Research Funds

Project name	Period	Funding	Funding agency	Role
ATHESIA BIG DATA	10/2018–09/2020	120,000	Athesia Group	PI
ISMARD	08/2018–04/2020	120,000	UNIBZ ID call 2018	PM
TASMA	01/2018–12/2019	66,000	UNIBZ CRC call 2017	PI
DASTS	09/2017–08/2018	74,000	Oracle Research	PI
HAIL RISK	05/2017–05/2020	43,000	UNIBZ ID call 2016	CI
EMMA	01/2017–12/2018	70,000	UNIBZ CRC call 2016	PI
TPG	11/2015–10/2018	50,000	UNIBZ CRC call 2015	CI
DASA2	01/2015–12/2016	50,000	UNIBZ CRC call 2014	PI
DASA	03/2014–02/2015	25,000	UNIBZ Foundation	PI
BZ-TRAFFIC	07/2013–02/2014	24,000	Municipality of Bolzano	CI
SYRA	08/2012–01/2015	20,000	UNIBZ CRC call 2012	CI
O-STAR	01/2012–12/2014	63,000	INTERREG-IV	PI _{bz}
AQUiST	04/2011–03/2014	117,000	Province of Bozen-Bolzano	PI
FITTS	07/2011–12/2012	75,000	ACS Data Systems SpA	PI
MEDAN	07/2009–06/2012	187,000	Health Authority South Tyrol	PI
OPTIMuN	07/2010–06/2011	25,000	UNIBZ CRC call 2010	PI
TTDBT	01/2005–11/2007	10,000	UNIBZ	PI
EMAYOR	01/2004–02/2006	110,000	6FP IST STREP	PI _{bz}
EBZ 2015	01/2006–12/2010	232,000	Municipality of Bolzano	PI
PEOPLE	01/2003–12/2004	130,000	Italian Ministry	PI _{bz}
EBZ – DIGITAL CITY	01/2002–06/2005	151,000	Municipality of Bolzano	PI
MiRIS	06/2001–06/2003	45,000	EURAC Research	PI _{bz}
2 MSc bursaries	2005–2006	14,000	Municipality of Bolzano	PI
Total funding acquired		1,821,000		

PI = principal investigator, CI = co-investigator, PI_{bz} = principal investigator on behalf of UNIBZ
PM = project member

Description of Research Projects

Project ATHESIA BIG DATA – Development of a Business Intelligence Platform

Period: 10/2018–09/2020

Funding: 120,000 Euro, Athesia Group

Role: Principal investigator

Objectives: Developing a data warehousing and analysis framework for the Athesia Group to support strategic business decisions. The main focus will first be on the modeling of very heterogeneous data and later on predictive analytics.

Partners: Athesia Group (Athesia Druck Srl, Brennercom Spa, Team Up Srl)

Project ISMARD – An Intelligent Analysis Platform for Stock Market Data

Period: 08/2018–04/2020

Funding: 120,000 Euro, UNIBZ ID call 2018

Role: Project member

Objectives: Building a data management and analysis framework for stock market time series data that supports various forms of historical analyses. The research focus is on data pre-processing, such as missing value imputation and outlier detection, as well as on advanced analysis operations, such as similarity and pattern search.

Project TASMA – Time Series Analytics for Smart Manufacturing

Period: 01/2018–12/2019

Funding: 66,000 Euro, UNIBZ CRC call 2017

Role: Principal investigator

Objectives: Developing new solutions and adapting existing ones for the efficient processing of time-series data in the manufacturing industry with a focus on improving the quality processes and products. The main focus is on the transformation and verification tasks of time series data obtained from sensors that monitor the industrial manufacturing processes.

Partners: UNIBZ, GKN Sinter Metals Bruneck

Project DASTS – A Comprehensive Database Support for Time Series

Period: 09/2017–08/2018

Funding: 74,000 Euro, Oracle Research

Role: Principal investigator

Objectives: Deep integration of comprehensive support for time series data into relational database systems; in particular, development of a framework that supports and automates the entire life cycle of processing time series data (data ingestion, transformation, analysis/projection, ...) and seamless integration of this in existing database technologies.

Partners: UNIBZ, University of Cologne, Oracle Research America Inc.

Project HAIL RISK – Re-insurance of Hail Risks in South Tyrol

Period: 05/2017–05/2020

Funding: 66,000 Euro, UNIBZ ID call 2016

Role: Co-investigator

Objectives: The focus of the project is on so-called catastrophe bonds (CAT bonds), in particular their relevance for reinsuring hail risks in agriculture. The working hypotheses is that CAT bonds may serve as an alternative to classical insurance and complement physical protection (hail nets) in South Tyrol. Our contribution in this interdisciplinary project focuses on data mining and analysis with the aim to predict risks.

Partner: UNIBZ, Georg-August-Universität Göttingen, Humboldt University of Berlin, University of Liechtenstein, Vienna University of Economics and Business

Project EMMA – Efficient Multimodal Routing Algorithms

Period: 01/2017–12/2018

Funding: 70,000 Euro, UNIBZ CRC call 2016

Role: Principal investigator

Objectives: Development of models and algorithms for efficient route planning in multimodal transportation networks that consider various modes of movement/transportation, such as walking, cycling, automobile, public transit, etc.

Partners: UNIBZ, Aarhus University, IDM Sdtirol – Alto Adige

Project TPG – Processing Interval-Timestamped Data in Relational Database Systems

Period: 11/2015–10/2018

Funding: 50,000 Euro, UNIBZ CRC call 2015

Role: Co-investigator

Objectives: Advancing relational database technology in order to provide full-fledged support for processing interval-timestamped data. The main focus is on implementing our extensions into the kernel of the PostgreSQL system and investigating optimization techniques to improve the performance of the basic solution.

Partners: UNIBZ, University of Zurich, GKN Sinter Metals, TIS Innovation Park

Project DASA2 – Data Analysis and Monitoring for a Sustainable Agriculture

Period: 01/2015–12/2016

Funding: 50,000 Euro, UNIBZ CRC call 2014

Role: Principal investigator

Objectives: Development of tools for the monitoring and analysis of meteorological data in agriculture in order to support daily decision making; in particular, algorithmic solutions for the imputation of missing values and similarity search.

Partners: UNIBZ, University of Zurich, Südtiroler Beratungsring für Obst- und Weinbau, Research Centre Laimburg.

Project DASA – A Data Analysis Platform for a Sustainable Agriculture

Period: 03/2014–02/2015

Funding: 25,000 Euro, UNIBZ Foundation

Role: Principal investigator

Objectives: Development of a platform for the analysis, monitoring, and quality control of sensor data (time series data) in agriculture. This platform shall provides instruments to analyse the data and support decision making.

Partners: UNIBZ, Versuchszentrum Laimburg, Südtiroler Beratungsring für Obst- und Weinbau

Project BZ-TRAFFIC – Bolzano Traffic

Period: 07/2013–02/2014

Funding: 24,000 Euro, Municipality of Bolzano-Bozen

Role: Co-investigator

Objectives: Development of efficient algorithms for computing different variants of shortest path routing in multimodal traffic networks, considering various transportation modes, available parking places, time, etc.

Partners: UNIBZ, Municipality of Bolzano-Bozen

Project SYRA – Synchronizing Residential Addresses

Period: 08/2012–01/2015

Funding: 20,000, UNIBZ CRC call 2012

Role: Co-investigator

Objectives: Design and implementation of an address connector for the synchronization of residential addresses that refer to the same location. Instead of correcting addresses according to an authoritative reference set, the connector shall provide a lookup function for residential addresses, returning all residential addresses in the target databases that refer to the same location as the query address.

Partners: UNIBZ, University of Zurich, Municipality of Bolzano-Bozen

Project O-STAR – Entwicklung eines innovativen Online-Systems für individuelle Touren- und Routenempfehlungen in alpinen Regionen

Period: 01/2012–12/2014

Funding: 63,000 Euro (total funding: 415,000 Euro), INTERREG IV ITALIEN-ÖSTERREICH, ID5343

Role: UNIBZ Principal investigator

Objectives: Developing solutions for best path, proximity, and range queries in spatial network databases for use in the context of touristic applications with points of interests in mountain environments. The proposed solutions shall combine recommender system components with classical shortest path routing algorithms.

Partners: UNIBZ, Amt für raumbezogene und statistische Informatik der Autonomen Provinz Bozen, Alpen-Adria-Universität Klagenfurt, EURAC,

Project AQUIST – Advanced Query Processing in Spatio-Temporal Network Databases

Period: 04/2011–03/2014

Funding: 117,000 Euro, Province of Bozen-Bolzano

Role: Principal investigator

Objectives: Study and development of algorithms for advanced query processing in spatial network databases, including the computation of range and reachability queries in multimodal network databases using isochrones and sequenced spatio-temporal aggregation queries for traffic analysis.

Partners: UNIBZ, Abteilung Informationstechnik der Autonomen Provinz Bozen, University of Zurich

Project FITTS – Fidelizzazione turistica territoriale: gestione sostenibile dell'esperienza turistica on-site

Period: 07/2011–12/2012

Funding: 75,000 Euro, ACS Data Systems SpA

Role: Principal investigator

Objectives: Developing solutions for itinerary planning for touristic applications in the presence of different transport networks, user preferences, complex cost functions, and categories for points of interest.

Partners: UNIBZ, ACS Data Systems

Project MEDAN – Medical Data Warehousing and Analysis

Period: 07/2009–06/2012
Funding: 187,000 Euro, Health Care District South Tyrol
Role: Principal investigator
Objectives: Creating competences in data warehousing and analysis for the health care sector and conduct research on selected topics, such as aggregation of multidimensional data and complex event set pattern matching.
Partners: UNIBZ, Health Care District South Tyrol, Hospital Meran

Project TTDBT – Transferable Database Technologies

Period: 01/2006–11/2007
Funding: 10,000 Euro, Free University of Bozen-Bolzano
Role: Principal investigator
Objectives: Extend and generalize existing temporal data models and query languages with a focus on the evaluation of temporal OLAP queries with different temporal semantics and the representation of calendar dates

Project EMAYOR – Electronic and Secure Municipal Administration for European Citizens

Period: 01/2004–02/2006
Funding: 110,000 Euro (total funding: 2 Mio. Euro), 6FP IST STREP of the EU, no 507217
Role: UNIBZ Principal investigator
Objectives: Development of an open, secure, and affordable e-government platform for small and medium European public organizations

Project EBZ 2015

Period: 01/2006–12/2010
Funding: 232,000 Euro, Municipality of Bozen-Bolzano
Role: Principal investigator
Objectives: Continue EBZ – DIGITAL CITY and promote the use of IT to improve the quality of services and the efficiency of the municipality administration

Project PEOPLE – Progetto Enti Online Portali E-Government

Period: 01/2003–12/2004
Funding: 130,000 Euro, Department of Innovation and Technology of the Italian Ministry
Role: UNIBZ Principal investigator
Objectives: Development and implementation of a middleware layer for the most important services offered by an Italian municipality

Project EBZ – DIGITAL CITY

Period: 01/2002–06/2005
Funding: 151,000 Euro, Municipality of Bozen-Bolzano
Role: Principal investigator
Objectives: Promote the use of IT to improve the quality of services and the efficiency of the municipality administration. Concrete projects under this umbrella include secure web services, the computation of isochrones for reachability analysis, the synchronization of address databases, and the analysis and monitoring of traffic data

Project MIRIS – Minority Rights Information System

Period: 06/2001–06/2003
Funding: 45,000 Euro, European Academy of Bozen-Bolzano
Role: UNIBZ Principal investigator
Objectives: Development of a comprehensive legal information system about minority rights in Europe with content-based browsing and querying

Project Two Bursaries for MSc students in Computer Science
Period: 2005
Funding: 14,000 Euro, Municipality of Bozen-Bolzano
Role: Coordinator

Software Products

While the implementation of prototype systems plays an important role in all of my research projects, in some cases the developed solutions went beyond pure research prototypes and progressed into industry-strength software systems:

- **TEMPORAL POSTGRESQL:** This is an extension of the Open Source PostgreSQL database system, providing a comprehensive and native support for sequenced temporal queries. We implemented our solution in the kernel of the database system and submitted it as a patch to the PostgreSQL community with the aim to be included in future releases of the database. The patch is currently in the reviewing phase.

Accessible at: <http://tpg.inf.unibz.it/>

- **ISOCHRONES:** A system for the computation of isochrones in multimodal networks. The system has been integrated into the GIS platform of the company CreaForm and deployed at the Municipality of Bozen-Bolzano.

Accessible at: www.isochrones.inf.unibz.it

- **ELDIT:** A web-based language learning system for German and Italian.

Accessible at: <http://www.eurac.edu/eldit>.

- **MIRIS:** Legal information system with the aim to promote the development of minority rights standards in Europe by providing easily accessible information about the implementation of minority rights.

Accessible at: <http://miris.eurac.edu>

- **CATEX:** A bilingual corpus of Italian-German legal texts that has been annotated to support the automatic extraction of terminology. The corpus has been integrated into the juridical terminological information system BISTRO.

Accessible at: <http://www.eurac.edu/bistro>

- **HEPAXPERT:** An expert system for the interpretation of Hepatitis A, B, and C serology test results. I developed and implemented the first stable version of the system for the interpretation of Hepatitis A and B serology tests. (as MSc student and scientific collaborator at the Department of Medical Computer Sciences, University of Vienna). The system progressed into a commercial system that is distributed by Medexter Healthcare GmbH, Borschkegasse 7/5, A-1090 Vienna, Austria.

Accessible at: www.medexter.com

Publications

In the following, GRIN refers to the classification of journals and conferences of the Italian Association of Computer Science professors.

Summary

- 25 journal publications (including 2 TODS, 3 VLDB Journal, 1 PVLDB, 1 TKDE, 4 Information Systems, 1 BMC Bioinformatics, 1 TCBB, 1 AIM)
- 90+ conference/workshop publications (including 2 SIGMOD, 2 VLDB, 4 ICDE, 6 EDBT, 4 CIKM, 1 KDD, 1 WWW, 1 IJCAI, 1 ECAI)
- 12 books/book chapters/edited books/edited conference proceedings
- 39 of my publications (13 journal and 26 conference publications) are in class A outlets according to the GRIN classification
- Bibliometric data (as of October 2018):

Source	Citations	h-index	i10-index
Google Scholar	1500	22	39
Scopus	551	12	17

Journal Publications

- [1] M. Shekelyan, A. Dignös, and J. Gamper. Sparse prefix sums: constant-time range sum queries over sparse multidimensional data cubes. *Information Systems*, 2018. In press. [GRIN A]
- [2] D. Piatov, S. Helmer, A. Dignös, and J. Gamper. Interactive and space-efficient multi-dimensional time series subsequence matching. *Information Systems*, 2018. In press. [GRIN A]
- [3] D. Blumenthal and J. Gamper. On the exact computation of the graph edit distance. *Pattern Recognition Letters*, 2018. In press. [GRIN C]
- [4] D. Blumenthal and J. Gamper. Improved lower bounds for graph edit distance. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 30(3): 503–516, 2018. [GRIN A]
- [5] M. Shekelyan, A. Dignös, and J. Gamper. DigitHist: a histogram-based data summary with tight error bounds. *PVLDB*, 10(11): 1514–1525, 2017. [GRIN A]
- [6] G. Mahlknecht, A. Dignös, and J. Gamper. A scalable dynamic programming scheme for the computation of optimal k -segments for ordered data. *Information Systems (IS)*, 70:2–17, 2017. [GRIN A]
- [7] A. Dignös, M.H. Böhlen, J. Gamper, and C.S. Jensen. Extending the kernel of a relational DBMS with comprehensive support for sequenced temporal queries. *ACM Transactions on Database Systems (TODS)*, 41(4): 26:1–26:46, 2016. [GRIN A]
- [8] D. Taliun, J. Gamper, U. Leser, and C. Pattaro. Fast sampling-based whole-genome haplotype block recognition. *IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)*, 13(2):315–325, 2016. [GRIN B]

- [9] N. Krismer, D. Silbernagl, J. Gamper, and G. Specht. osmPti2mmds – Erstellung von multimodalen Datensets aus OpenStreetMap und ÖPNV-Informationen. *AGIT Journal*, 2:185–190, 2016.
- [10] D. Taliun, J. Gamper, and C. Pattaro. Efficient haplotype block recognition of very long and dense genetic sequences. *BMC Bioinformatics*, 15(10), 2014. [GRIN A]
- [11] N. Augsten, and M.H. Böhlen, and J. Gamper. The address connector – noninvasive synchronization of hierarchical data sources. *Knowledge and Information Systems (KAIS)*, 37(3):639–663, 2013.
- [12] J. Gordevičius, J. Gamper, and M. H. Böhlen. Parsimonious temporal aggregation. *The VLDB Journal*, 21(3): 309–332, 2012. [GRIN A]
- [13] N. Augsten, M. H. Böhlen, C. Dyreson, and J. Gamper. Windowed pq-grams for approximate joins of data-centric XML. *The VLDB Journal*, 21(4): 463–488, 2012. [GRIN A]
- [14] M. Khayati, J. M. Anderson, M. H. Böhlen, J. Gamper, and M. Mitterer. Similarity of chemotherapy histories based on imputed values. *International Journal of Medical Engineering and Informatics (IJMEI)*, 4(3): 282–298, 2012.
- [15] I. Timko, M. H. Böhlen, and J. Gamper. Sequenced spatiotemporal aggregation for coarse query granularities. *The VLDB Journal*, 20(5): 721–741, 2011. [GRIN A]
- [16] M. Akinde, M. H. Böhlen, D. Chatziantoniou, and J. Gamper. θ -Constrained multi-dimensional aggregation. *Information Systems (IS)*, 36(2): 341–358, 2011. [GRIN A]
- [17] N. Augsten, M. H. Böhlen, and J. Gamper. The pq-gram distance between ordered labeled trees. *ACM Transactions on Database Systems (TODS)*, 35(1):1-36, 2010. [GRIN A]
- [18] M. H. Böhlen, J. Gamper, and C. S. Jensen. An algebraic framework for temporal attribute characteristics. *Annals of Mathematics and Artificial Intelligence (AMAI)*, 46(3): 349–374, March 2006. [GRIN B]
- [19] P. Brusilovsky, J. Knapp, and J. Gamper. Supporting teachers as content authors in intelligent educational systems. *International Journal of Knowledge and Learning*, 2(3/4): 191–215, 2006.
- [20] J. Gamper and J. Knapp. A review of intelligent CALL systems. *Computer Assisted Language Learning*, 15(4):329–342, October 2002. [GRIN C]
- [21] J. Gamper and J. Knapp. Adaptation in a vocabulary acquisition system. *Zeitschrift Künstliche Intelligenz*, 3(2):27–30, 2002.
- [22] J. Gamper and O. Stock. Corpus-based terminology. *TERMINOLOGY*, 5(2):147–159, 1998/1999.
- [23] J. Gamper and W. Nejd. Abstract temporal diagnosis in medical domains. *Artificial Intelligence in Medicine (AIM)*, 10(3):209–234, 1997. [GRIN A]
- [24] J. Gamper and K.P. Adlassnig. Fuzzy-Mengen in der Medizin. *GIT Labor-Medizin*, 15:409–410, October 1992.
- [25] C. Chizzali-Bonfadin, K.P. Adlassnig, W. Horak, and J. Gamper. Das integrierte Datenbank- und Expertensystem HEPAXPERT-II: Automatische Interpretation von Hepatitis-A- und B-Serologie-Befunden. *GIT Labor-Medizin*, 15:408, October 1992.

Conference/Workshop Publications

- [1] T. Chondrogiannis, P. Bouros, J. Gamper, U. Leser, and D.B. Blumenthal. Finding k-dissimilar paths with minimum collective length. In *Proc. of the 26th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (SIGSPATIAL/GIS)*, Seattle, Washington, USA, November 6–9, 2018. Accepted for publication.
- [2] M.H. Böhlen, A. Dignös, J. Gamper, and C.S. Jensen. Database technology for processing temporal data (Extended abstract). In *Proc. of the 25th International Symposium on Temporal Representation and Reasoning (TIME)*, Warsaw, Poland, 15–17 October, 2018. (Invited paper). Accepted for publication. [GRIN A]
- [3] D.B. Blumenthal, É. Daller, S. Bougleux, L. Brun, and J. Gamper. Quasimetric graph edit distance as a compact quadratic assignment problem. In *Proc. of the 24th International Conference on Pattern Recognition (ICPR)*, Beijing, China, August 20–24, 2018. Accepted for publication. [GRIN A]
- [4] D.B. Blumenthal, S. Bougleux, J. Gamper, and L. Brun. Ring based approximation of graph edit distance. In *Proc. of the Joint IAPR International Workshop on Structural, Syntactic, and Statistical Pattern Recognition (S+SSPR)*, pages 293–303, Beijing, China, August 17–19, 2018.
- [5] V. Del Fatto, A. Dignös, and J. Gamper. Time^odiff: a visual approach to compare period data. In *Proc. of the 22nd International Conference Information Visualisation (iV)*, Salerno, Italy, 10–13 July, 2018.
- [6] M. Shekelyan, A. Dignös, and J. Gamper. Sparse prefix sums. In *Proc. of the 21st European Conference on Advances in Databases and Information Systems (ADBIS)*, pages 120–135, Nicosia, Cyprus, September 24–27, 2017. (Best paper award)
- [7] D. Piatov, S. Helmer, and J. Gamper. Interactive time series subsequence matching. In *Proc. of the 21st European Conference on Advances in Databases and Information Systems (ADBIS)*, pages 73–87, Nicosia, Cyprus, September 24–27, 2017. (Best paper award)
- [8] G. Mahlknecht, A. Dignös, and J. Gamper. VISOR: Visualizing summaries of ordered data. In *Proc. of the 29th International Conference on Scientific and Statistical Database Management (SSDBM)*, pages 40:1–40:5, Chicago, IL, USA, June 27–29, 2017. (Demo paper)
- [9] N. Krismer, D. Silbernagl, G. Specht, and J. Gamper. Computing isochrones in multimodal spatial networks using tile regions. In *Proc. of the 29th International Conference on Scientific and Statistical Database Management (SSDBM)*, pages 33:1–33:6, Chicago, IL, USA, June 27–29, 2017.
- [10] D. B. Blumenthal and J. Gamper. Correcting and speeding-up bounds for non-uniform graph edit distance. In *Proc. of the 33rd IEEE International Conference on Data Engineering (ICDE)*, pages 131–134, San Diego, CA, USA, April 19–22, 2017. [GRIN A]
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- [2] D. Sacharidis, J. Gamper, and M. H. Böhlen, editors. *Proceedings of the 30th International Conference on Scientific and Statistical Database Management (SSDBM)*, Bozen-Bolzano, Italy, July 09-11, 2018, ACM.
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- [1] W. Costanzi and J. Gamper. Serving the city safely. *Academia*¹, 40:56–57, April 2006.
- [2] J. Gamper and J. Knapp. Simple, fast and powerful. *Academia*, 26, 2001.
- [3] J. Gamper and J. Knapp. Implementation of an electronic dictionary. *Academia*, 22, 2000.
- [4] J. Gamper. Construction of a parallel text corpus — Encoding primary data. *Academia*, 18:32–33, 1999.
- [5] A. Abel, S. Cavagnoli, J. Gamper, A. Schweigkofler, and V. Weber. Sprachenzentrum: Eine Zusammenarbeit mit der Freien Universitt Bozen. *Academia*, 19:5–7, 1999.
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¹Acadmia is the Science Magazine of EURAC and UNIBZ

Invited and Keynote Presentations, Seminars, Tutorials

A few selected and more recent invited presentations are listed below.

- Keynote presentation: *Database Technology for Processing Temporal Data*. 25th International Symposium on Temporal Representation and Reasoning (TIME), Warsaw, Poland, 15–17 October, 2018.
- Keynote presentation: *Processing temporal data: existing technologies and open challenges*. Workshop on Data-Driven Approaches for Analyzing and Managing Scholarly Data, co-located with ADBIS 2017, Nikosia, Cyprus, September 24, 2017.
- Invited presentation: *Data analysis and monitoring for a smart agriculture*. Workshop on IoT, UNIBZ, July 11, 2017.
- Invited tutorial: *Temporal data management: an overview*. Seventh European Business Intelligence & Big Data Summer School (eBISS 2017), Brussels, Belgium, July 2–7, 2017.
- Invited presentation: *How to aggregate temporal data?* 3rd International Alexandria Workshop, co-located with the 20th International Conference on Theory and Practice of Digital Libraries (TPDL-16), Hannover, September 8–9, 2016.
- Invited presentation: *Benefits and experiences of being accredited – lessons learnt and changes implemented in the frame of an Euro-Inf accreditation procedure*. EQANIE Workshop, co-located with the ASIIN International Conference 2016 on “Quality Management in Higher Education – the Mystery of its Untapped Potential”, Berlin, May 3–4, 2016.
- Invited presentation: *New routing methods for the development of advanced information systems for mobility*. Mobilitätstagung 2016, Messe Bozen, March 17, 2016.
- Invited seminar: *A native solution for processing interval-timestamped data in a RDBMS*. Leibniz Universität Hannover, November 20, 2015.
- Invited presentation: *Datenanalyse und Monitoring für eine nachhaltige Landwirtschaft*. Research Day at the Free University of Bozen-Bolzano, October 8, 2015.
- Invited seminar: *Querying temporal data in SQL-based DBMSs – a principled solution*. Philipps University of Marburg, September 17, 2015.
- Invited seminar: *Native support for processing interval timestamped data in RDBMSs*. University of Trento, May 20, 2015.
- Invited seminar: *Native support for processing interval timestamped data in RDBMSs*. Humboldt Universität zu Berlin, March 30, 2015.
- Invited presentation: *Shortest path routing in continental scale networks*. EUREGIO Summerschool 2014 for high school students, jointly organized by the Universities of Trento and Bozen-Bolzano, August 28, 2014.
- Invited seminar: *Using isochrones for reachability analysis in multimodal networks*. University of Salzburg, October 28, 2013.
- Invited seminar: *Using isochrones for reachability analysis in multimodal networks*. University of Innsbruck, October 16, 2013.
- Invited presentation: *Isochrones in multimodal networks*. Vilnius University, September 10, 2013.

- Invited presentation: *Landmark-based estimation of shortest path*. Vilnius University, September 11, 2013.
- Invited presentation: *A general temporal aggregation framework*. Czech Technical University in Prague, December 18, 2008.

Experience in Academic Teaching

Courses

I taught courses in German, Italian, and English at the undergraduate, post-graduate and PhD level and at different universities: UNIBZ, University of Hannover (1994–1996), RWTH Aachen (1993–1994), University of Vienna (1992–1993).

While most of the teaching was for Computer Science students, I taught also introductory computer science courses for other faculties, e.g., *Foundations of Computer Science* for the BSc in Industrial Engineering (UNIBZ, 1999/2000–2001/02) and *Computing* for the BSc in Agricultural Science and the BSc in Economics (UNIBZ, 1999/2000–2002/03).

Free University of Bozen-Bolzano

- *Empirical and Experimental Computer Science Research Methods* in the module “Research Methods” for PhD students: 6 h lecture, 2015/16–present
- *Advanced Data Management Technologies* (MSc): 2013/14–present
48 h lecture and 24 h exercises
<http://www.inf.unibz.it/dis/teaching/ADMT>
- *Programming Paradigms* (BSc): 2013/14–present
36 h lecture and 18 h exercises
<http://www.inf.unibz.it/dis/teaching/PP>
- *Data Warehousing* (MSc): 2009/10–2012/13
24 h lecture
<http://www.inf.unibz.it/dis/teaching/DWDM>
- *Temporal and Spatial Databases* (MSc): 2005/06–2008/09, 2011/12–2012/13
24 h lecture and 12 h exercise
<http://www.inf.unibz.it/dis/teaching/TSDB>
- *Database Management and Tuning* (MSc): 2012/13
24 h lecture and 12 h exercise
<http://www.inf.unibz.it/dis/teaching/DMT>
- *Distributed Database Systems* (MSc): 2007/08–2008/09
24 h lecture and 12 h exercise
<http://www.inf.unibz.it/dis/teaching/DDB>
- *Seminar in Databases* (MSc): 2008/09–2012/13
24 h lecture and 12 h exercise
<http://www.inf.unibz.it/dis/teaching/SDB1213/>
- *Database Management Systems* (BSc): 2004/05–2010/11
24 h lecture and 12 h exercise
<http://www.inf.unibz.it/dis/teaching/DMS>
- *Introduction to Programming* (BSc): 2001/02–2003/04
36 h lecture and 18 h exercise
<http://www.inf.unibz.it/dis/teaching/ITP>
- *Computing* (BSc in Agricultural Science and BSc in Economics): 1999/2000–2002/03
30 h lecture and 20 h exercise
- *Foundations of Computer Science* (BSc in Industrial Engineering): 1999/2000–2001/02
20 h lecture and 30 h exercise

University of Hannover

- Exercises in *Artificial Intelligence* (MSc): 1994/95–1995/96

RWTH Aachen

- Exercises in *Expert Systems* (MSc): 1993/94
- Seminar in *Distributed Artificial Intelligence* (MSc): 1993/94

University of Vienna

- Seminar in *Computer Applications in Medicine* (MSc): 1992/93

Other Teaching Experiences

- In the context of the *LLP Erasmus Programme for Staff Mobility*, I spent a week at the Vilnius University, Lithuania, in September 2013. The aim of this visit was to exchange experience and best practices in teaching, teaching organization and quality assurance for teaching. I also delivered the following two lectures to students:
 - *Isochrones in multimodal networks* (3 hours), BSc/MSc/PhD, Vilnius University, September 10, 2013.
 - *Landmark-based estimation of shortest path* (3 hours), BSc/MSc/PhD, Vilnius University, September 11, 2013.
- I regularly give *lectures at local high schools* in the context of advertising the faculty and attract students (see section “Other academic responsibilities” for details)
- I gave a lecture on *Shortest path routing in continental scale networks* at the *EUREGIO Summerschool 2014* for high school students, jointly organized by the Universities of Trento and Bozen-Bolzano, August 28, 2014
- I gave a tutorial on *Temporal data management* at the *Seventh European Business Intelligence & Big Data Summer School (eBISS 2017)* in Brussels. This Summer School is part of the *Erasmus Mundus Joint Master Degree Programme in Information Technologies for Business Intelligence (IT4BI)*.

Student Supervision

- 13 PhD theses
- 8 external reviewer of PhD thesis and/or final exam commission member
- 21 MSc theses
- 38 BSc theses

Supervision of PhD Students

- Khayal Gafarov: *Processing time series data in relational database management systems*, UNIBZ, 2018-2021.
- David Blumenthal: *Graph edit distance computation*, UNIBZ, 2016-2018.
- Giovanni Mahlknecht: *On the efficient computation of temporal aggregation*, UNIBZ, 2016-2018.

- Michael Shekelyan: *Reliable data summaries for multidimensional data using histograms*, UNIBZ, 2015-2017.
- Nikolaus Krismer: *Isochrones in multimodal spatial networks*, University of Innsbruck, 2014-2017. (Co-supervision with Prof. Günther Specht, University of Innsbruck)
- Theodoros Chondrogiannis: *Scalable solutions for distance and shortest path queries in road networks*, UNIBZ, 2013–2016.
- Daniel Taliun: *Efficient whole genome haplotype block partitioning using linkage disequilibrium*, UNIBZ, 2011–2014.
- Bruno Cadonna: *Sequenced event set pattern matching*, UNIBZ, 2008–2012.
- Markus Innerebner: *Computing isochrones in multi-modal network databases*, UNIBZ, 2007–2012.
- Juozas Gordevicius: *Summarizing temporal data with approximate temporal aggregation and ranking*, UNIBZ, 2007–2010.
- Romans Kasperovics: *Handling recurrent events in relational databases*, UNIBZ, 2005-2009. (Co-supervision with Prof. M.H. Böhlen)
- Nikolaus Augsten: *Approximate join of hierarchical data structures*, Aalborg University, Denmark, 2002–2006. (Co-supervision with Prof. M.H. Böhlen)
- Judith Knapp: *A new approach to CALL content authoring*, University of Hannover, 2000–2004. (Co-supervision with Prof. W. Nejdl)

External Examiner/Reviewer of PhD Theses

- Member of PhD Thesis Defense Committee for Saulius Astromskis, UNIBZ, November 2015. Thesis title: *A non-invasive approach to software development process analytics*.
- Member of PhD Thesis Defense Committee for Anton Georgiev, UNIBZ, November 2015. Thesis title: *Computing-oriented optimization techniques for energy-aware mobile software design*.
- Member of PhD Thesis Defense Committee for Ali Fawzi Najm Al-Shammari, UNIBZ, October 2014. Thesis title: *OVVM: Open vote verification technique for DRE systems*.
- Member of PhD Thesis Defense Committee for Yazmín Angélica Ibáñez Garcia, UNIBZ, October 2014. Thesis title: *Reasoning over description logic ontologies under non-standard assumptions*.
- External reviewer and member of PhD Thesis Defense Committee for Benjamin Gufler, Technical University of Munich, March 2013. Thesis title: *Load-balanced massively parallel distributed data exploration*.
- External reviewer for the PhD Thesis of Cristian Peraboni, University of Milan, March 2009. Thesis title: *eParticipation technologies to support digital citizenship*.
- External reviewer and member of PhD Thesis Defense Committee for Khadija Abied Ali, Czech Technical University in Prague, Faculty of Electrical Engineering, December 2008. Thesis title: *A temporal extension of XML*.
- External examiner for the PhD mid-term exam of Pensiri Manomaisupat, University of Surrey, Department of Computing, UK, May 2004. Thesis title: *Automatic text categorisation using terminology resources*.

Advanced Training

- Participation in the 35-hour course *Academic Teaching Excellence – English as a Medium of Instruction*, delivered by the British Council, 28.09.2015–02.10.2015.
- Participation in the course “*Le procedure di accreditamento periodico e la valutazione dei requisiti di assicurazione qualità*”, prof. Massimo Tronci, Fondazione CRUI, Rome, July 2, 2015.

Academic Activities, Services, Memberships

PC Memberships at International Conferences and Workshops

- *ACM SIGMOD International Conference on Management of Data (SIGMOD)*: 2014 (demo track), 2011
- *International Conference on Very Large Data Bases (VLDB)*: 2019, 2018 (Demo track), 2017, 2015 (Demo track)
- *IEEE International Conference on Data Engineering (ICDE)*: 2017, 2016, 2010
- *International Conference on Extending Database Technology (EDBT)*: 2019, 2017, 2016, 2015, 2013, 2011, 2009
- *ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (SIGSPATIAL/GIS)*: 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011
- *IEEE International Conference on Mobile Data Management (MDM)*: 2018
- *International Conference on Information and Knowledge Management (CIKM)*: 2017
- *International Conference on Scientific and Statistical Database Management (SSDBM)*: 2015, 2014, 2012, 2011, 2010
- *International Conference on Database Systems for Advanced Applications (DASFAA)*: 2018, 2017, 2015, 2014
- *European Conference on Advances in Databases and Information Systems (ADBIS)*: 2015, 2014, 2013, 2012, 2009, 2008
- *International Symposium on Spatial and Temporal Databases (SSTD)*: 2017
- *International Workshop on Design, Optimization, Languages and Analytical Processing of Big Data (DOLAP)*: 2019, 2018
- *International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM)*: 2019, 2018, 2017, 2016, 2014, 2012, 2010
- *International Symposium on Temporal Representation and Reasoning (TIME)*: 2013, 2008
- *International Conference on Data Management Technologies and Applications (DATA)*: 2014
- *International Conference on Web-Age Information Management (WAIM)*: 2013, 2012, 2010
- *International VLDB Workshop on Ranking in Databases (DBRank)*: 2013
- *International Conference on Electronic Government and the Information Systems Perspective and International Conference on Electronic Democracy (EGOVIS and EDEM)*: 2015, 2014, 2013, 2012
- *International Conference on Electronic Government and the Information Systems Perspective (EGOVIS)*: 2011, 2010
- *ERP Future – Research*: 2015
- *International DEXA Workshop on Recommender Systems meet Databases (RSMEETDB)*: 2013, 2012

- VLDB-07 PhD Workshop: 2007
- *International Conference on Knowledge Management in Organisations (KMO)*: 2007
- Track “Dienstleistungsprozesse im e-Government” of the Multi-Conference “Wirtschaftsinformatik 2006”: 2006

General Chair, PC Chair, Organization Chair

- Co-organization and track chair for “Data, Information and Knowledge Engineering” of the *47th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM)*, 2021, Bozen-Bolzano, Italy.
- General chair of the *30th International Conference on Scientific and Statistical Database Management (SSDBM)*, July 9–11, 2018, Bozen-Bolzano, Italy.
- Workshops co-chair of the *21st European Conference on Advances in Databases and Information Systems (ADBIS)*, September 24–27, 2017, Nicosia, Cyprus.
- Organization co-chair and PC member of the *26. GI-Workshop “Grundlagen von Datenbanken”*, October 22–24, 2014, Ritten, Italy.
- Organization chair of the *Workshop series “Computer Science Research Meets Business”* (two annual workshops) to strengthen the collaboration between the Faculty and the local business, Free University of Bozen-Bolzano, Italy, 2013–present.
- PC co-chair and organization co-chair of the *3rd eBZ-Workshop on e-Government*, jointly organized by the Free University and the Municipality of Bozen-Bolzano, October 11–12, 2006, Bozen-Bolzano, Italy.
- PC co-chair and organization chair of the *International TED Conference on e-Government – Towards Electronic Democracy: The Challenge Ahead (TCGOV)*, March 2–4, 2005, Bozen-Bolzano, Italy.
- General Chair of the *eMayor Clustering Event on Secure Information Processing in the Public Sector (SIPPS)*, co-located with TCGOV, March 4, 2005, Bozen-Bolzano, Italy.
- PC co-chair and organization co-chair of the *2nd eBZ-Workshop on e-Government*, co-located with TCGOV and jointly organized by the Free University and the Municipality of Bozen-Bolzano, March 3, 2005, Bozen-Bolzano, Italy.
- PC co-chair and organization co-chair of the *1st eBZ-Workshop on e-Government*, jointly organized by the Free University and the Municipality of Bozen-Bolzano, Februar 13–14, 2003, Bozen-Bolzano, Italy.
- PC chair and organization chair of the *Workshop on Corpus-Based Terminology*, European Academy of Bozen-Bolzano, February 26–28, 1998, Bozen-Bolzano, Italy.
- PC co-chair and organization co-chair of the *PhD Workshop at the 8th Austrian Artificial Intelligence Conference (FLAI)*, Linz, Austria, 1993.

Reviewing Activities for Journals, Conferences, Research Grants

- Journals: TODS, VLDB Journal, TKDE, SIGMOD Record, Information Systems, DKE, AICOM, KI Journal, AIM Journal
- Conferences: SIGMOD-09, VLDB-07, NWeSP-06, SIGMOD-04, IJCAI, LinJus-99

- Reviewer of research grant applications for:
 - *National Science Foundation, Division of Information & Intelligent Systems, USA*
 - *The Research Council of Norway*
 - *“Deutsche Forschungsgemeinschaft (DFG)”*

Other Academic and Professional Services and Memberships

- Member of the *Advisory Board of Swiss Innovation Valley* (<http://swissinnovationvalley.com/>): 2017–present
- Founding member and member of *SIBIM (“Società Scientifica Italiana di Informatica Biomedica”, <http://www.sibim.it>)*
- Member of the *Expert Panel of EQANIE* (European Quality Assurance Network for Informatics Education) for the accreditation of university study programs: 2016–present
- Member of the *Expert Panel of AQ Austria* (Agency for Quality Assurance and Accreditation Austria) for the accreditation of university study programs: 2016–present
- Member of the *assessment committee* for assistant professors in Computer Science, *Aalborg University*: 2015
- Member of ACM and IEEE

Services to the Faculty and University

Internal Appointments to Faculty and University Boards

- *Vice-Rector* for Research: 2018–present
- *Vice-Dean* for Studies: 2014–2018
- Member of the *Study Committee for the PhD in Computer Science*: 2004–present
- *Course Council Director* of the BSc in Computer Science: 2009–present
- Member of the *UNIBZ Studies Committee*: 02/2015–present
- Member of the *Editorial Board of Bozen-Bolzano University Press*: 2012–present
- Member of the *Selection Committee for the Admission to the Bachelor in Computer Science*: 2006–2007, 2010–present
- Coordinator of the *Workshop series “Computer Science Research Meets Business”* (two annual workshops) to strengthen the collaboration between the Faculty and the local business, Free University of Bozen-Bolzano, Italy, 2013–present.
- Member of the *Quality Committee of the Free University of Bozen-Bolzano (“Presidio di Qualità”)*: 2013–2015
- Member of the *Course Council of the BSc in Applied Computer Science*: 2003–2006
- President of the *“Gruppo di Riesame” for the BSc in Computer Science and Engineering*: 2012–2016
- Member of the *Selection Committee for Erasmus+ Teaching Staff mobility*: 2015, 2018
- Member of the *Selection Committee for the Admission to the PhD in Computer Science*: 2004–2006, 2009–2011
- Member of the *Selection Committee for External Teachers and Teaching Assistants*: 2003–2012
- Coordinator of the *EQANIE Accreditation of the Bachelor in Computer Science and Engineering*: 2012
- Coordinator of the *EURO-INF Trial Accreditation of the Bachelor in Applied Computer Science*: 2008
- Member of the *Selection Commission for LLP Erasmus Student Exchange*: 2009
- Member of the *Commission for Exam Recognition and Student Exchange*: 2003–2005
- *Representative of the researcher* in the Faculty Council: 2003–2006
- Co-editor of the *Research Report 2001-2004*

Faculty Representative in External Commissions

- Delegate member of the Faculty in the *Technical-Scientific Committee of the HTB Course in Practical Informatics* (“HTB Kurs Praktische Informatik”), Landesberufsschule für Handwerk und Industrie Bozen: 2002–2004, 2005–2008
- Delegate member of the Faculty in the *Technical-Scientific Committee of the HTB Course for Database Developer* (“HTB Kurs Datenbankentwickler”), Landesberufsschule für Handwerk und Industrie Bozen: 2004–2005
- Delegate member of the Faculty in the *Technical-Scientific Committee of the HTB Course for Network Technicians* (“HTB Kurs Netzwerktechniker”), Landesberufsschule Brixen: 2003–2008

PR Activities and Lectures at High Schools

- Coordinator of the faculty for activities, events and projects with high schools: 2014–2015
- Lecture on *Shortest path routing in continental scale networks*: WFO Meran (May 2015), TFO Brixen (April 8, 2015), TFO Meran (March 17, 2015)
- Lecture on *Business intelligence and data warehousing*: WFO Meran (May 2015), WFO Meran (April 11, 2014)
- Presentation of the *Bachelor in Computer Science and Engineering*: TFO Brixen (April 8, 2015), TFO Meran (March 17, 2015), WFO Meran (May 2015), WFO Meran (April 11, 2014)
- Presentation of the *Bachelor in Computer Science* at the Open Day of the UNIBZ: 2010–2018
- Presentation of the *Bachelor in Computer Science* at the Info Day of the UNIBZ: 2003–2008, 2010–2018
- Introductory lecture “*Von Bits und Bytes zum grössten gemeinsamen Teiler*” at the Open Day of the UNIBZ: 2004–2007
- Presentation of the *Bachelor in Applied Computer Science* at local high schools: ITC Battisi di Bolzano, Liceo scientifico “Albert Einstein” di Merano, ITI di Merano, 2003/04–2004/05
- Lecture “*Über Bits und Bytes und die Mechanisierung des Rechnens*” at the Liceo scientifico and Gewerbeoberschule of Meran, 2005
- Organization of a stand and presentation of research results at *LUNA (Long Night of Research)*
 - LUNA 2010: *Computing isochrones in multi-modal schedule-based transport networks*
Partners: UNIBZ, Municipality of Bozen-Bolzano, CreaForm
 - LUNA 2012: “*FITTS – O-STAR: Routenplanung für touristische Applikationen*”
 - LUNA 2014: “*Giro Challenge Martelltal*”
Partners: EURAC, UNIBZ, University of Klagenfurt, Amt für raumbezogene und statistische Informatik der Autonomen Provinz Bozen, Viva Latsch GmbH, Bad Kleinkirchheimer Tourismus Marketing GmbH

Bozen, November 7, 2018

Johann Gamper