Prof. Dr. Bradley L. Richards

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Personal
Date of birth: 10. August 1960
Marital status: married, two children
Citizenship: Switzerland

Education

Ph.D. and M.Sc. in Computer Science (September 1989 through August 1992)
    University of Texas, Dept. of Computer Sciences, Austin, Texas, USA
    Dissertation: An Operator-Based Approach to First-Order Theory Revision
    Supervisor: Prof. Dr. Raymond J. Mooney

United States Air Force, Squadron Officer's School (April 1988 through May 1988)
    Montgomery, Alabama, USA

M.Sc. in Electrical Engineering (May 1985 through December 1986)
    Air Force Institute of Technology, Dept. of Electrical Engineering, Dayton, Ohio, USA
    Master's Thesis: Programming in "Fuzzy Logic": "Fuzzy Prolog"
    Loius F. Polk award, Distinguished Graduate

United States Air Force, Officer Training School (June through August, 1982)
    San Antonio, Texas, USA

B.Sc. in Electrical Engineering (August 1978 through May 1982)
    Southern Methodist University, Dept. of Electrical Engineering, Dallas, Texas, USA

High School (August 1974 through May 1978)
    Albuquerque Academy, Albuquerque, New Mexico, USA
    Cum Laude

Professional Experience

Vocational School of Upper Valais (BFO). (Visp, Switzerland; November 2022 through present). Teaching individual courses and projects in the area of computer science.

University of Applied Sciences, Northwest Switzerland (FHNW) (Olten, Switzerland; September 2025 through present). Teaching individual courses in the area of programming, as well as supervising student projects.

Retirement in August 2025

University of Applied Sciences, Northwest Switzerland (FHNW) (Olten, Switzerland; May 2009 through August 2025). Professor of computer science. Lectures in Software Engineering and related

technical fields. Supervision of student projects, consulting, and head of the CAS in Business Requirements Engineering.

Swiss Distance University of Applied Sciences (FFHS). (Brig, Switzerland, October 2020 through June 2025). Taught individual courses in requirements engineering and programming. Responsible for the redesign of the first semester course in Java programming.

Kraan and Richards GmbH (Schönenwerd, Switzerland; January 1994 through May 2018). Co-owner and manager. Our company specialized in IT consulting for small companies.

Sirius Technologies AG (Medgate) (Basel, Switzerland; July 2007 through April 2009). Senior project manager, responsible for software development projects in the areas of HSE (Health, Safety & Environment) and eHealth. Responsible for all phases of development, from initial evaluation through development to delivery and maintenance.

University of Applied Sciences, Northwest Switzerland (FHNW) (Muttenz und Brugg, Switzerland; February 2001 through April 2009). Part-time lecturer in computer science, with lectures in Theoretical Computer Science (predicate logic, graph theory, etc.), Internet Programming (CSS, PHP, XML, J2EE, etc.) and Java. I also supervise student projects and theses.

University of Applied Sciences in Furtwangen (Furtwangen, Germany; April 1995 through February 2001). Professor for software engineering and artificial intelligence, with lectures in these and related areas. In 1996, together with Prof. Mescheder, leader of a research project to develop an expert system for microsystems design; this project was funded by the Baden-Württemberg Ministry for Science and Research. I was a member of the Curriculum Committee, chairman of two search committees, and from 1998 through 2001 deputy head of department.

Swiss Federal Institute of Technology (EPFL), Artificial Intelligence Laboratoryi (Lausanne, Switzerland; November 1993 through through March 1995). Research Fellow in the Working Group on Model-Based Reasoning (a program of the Swiss National Science Foundation). Development of a model-based indexing method which allows case-based reasoning to be applied to complex process-control problems. Proof of concept through creation and evaluation of a prototype tool to automatically develop qualitative models from process data, and to derive case indices from the resulting model.

University of Aberdeen, Department of Computing Science (Aberdeen, Scotland; January 1993 through August 1993). Research Fellow on the VIVA (Verification, Improvement, and Validation of Knowledge-Based Systems) Esprit project. Development of translation tools to convert between commercial expert-system shell representations and the common knowledge representation used by VIVA. Extension of techniques developed in experimental knowledge refinement systems such as KRUST and FORTE to work with industrial expert systems.

University of Edinburgh, Department of Artificial Intelligence (Edinburgh, Scotland; October 1992 through December 1992). Contract to implement the Mollusc proof development system. Mollusc provides logic-independent support for interactive and semi-automatic theorem proving, and serves as an object-level verification system for proof planning and program synthesis systems.

Defense Logistics Agencys (Boston, Massachusetts, USA; January 1987 through August 1989). Program Support Officer and Engineer. On-site Air Force representative to Raytheon Corporation's 27 plants in the Boston area, for $2 billion of Air Force contracts. Also served as project engineer for the Advanced Medium Range Air-to-Air Missile (AMRAAM) Producibility Enhancement Program.B

Merrimack College (North Andover, Massachusetts, USA; January 1987 through August 1989). Adjunct Lecturer. Taught courses in Pascal and Compilers. Chaired the Computer and Information Sciences Curriculum Committee, which developed a new computer science curriculum to meet ACM accreditation standards.

United States Air Force, F-15 System Program Office (Dayton, Ohio, USA; September 1982 through May 1985). Software Systems Manager. Reviewed technical specifications, negotiated costs, and accepted final delivery of $50 million of avionics and ground support software for the F-15 fighter aircraft. Established and reviewed contractor and subcontractor software quality assurance programs.

Johnson Controls, Inc. (Dallas, Texas, USA; January 1979 through May 1982). Cooperative education program with industry. Wrote real-time process-control software for sewage plant automation. Responsible for software documentation and project configuration control.

Newest publications

Bradley Richards (2022). Ein bisschen Spass muss sein. *c't: Magazin für Computertechnik*, 3, 194.

Bendel, O., Studer, D., & Richards, B. (2019). The Bestbot project. In O. Bendel (Ed.), *Handbuch Maschinenethik* (pp. 1–17). Springer VS.

Bendel, O., & Richards, B. (2017). Towards Kant Machines. *The 2017 AAAI Spring Symposium Series.*

Richards, B., & Lorgé, C. (2017). Die Invasion des IoT. Cyber Security. *Unternehmer Zeitung*, 5, 32–33.

Bradley Richards, Janine Jäger (2016). Digitalisierung entlang der Wertschöpfungskette: Trends und Beispiele. *ku – Führung von Kleinunternehmen*, PostFinance AG (Nr. 16/2016).

Bradley Richards, Janine Jäger (2016). Digitalisierung mIT Strategie. *UZ Unternehmerzeitung*. (Nr. 4/2016). S. 30-31.

Bradley Richards (2014). Software nach Mass. *UZ Unternehmerzeitung*. (Nr. 12/2014). S. 34-35.

Bradley Richards (2013). Das IT-Dilemma - Wenn Kleinstunternehmen wachsen. *UZ Unternehmerzeitung*. (Nr. 12, 2013). S. 32-33.

Rolf Dornberger, Bradley Richards, Nathalie Baumann (2012). Tief in die Schweizer Abstimmungslandschaft hineinzoomen. *Netzwoche*, Netzmedien AG, Zürich. 2012. (21/2012). S. 35-38.