

CURRICULUM VITAE

Dr. Patrick Jermann

COORDINATES

Professional address	Ecole Polytechnique Fédérale de Lausanne (EPFL) – CRAFT CE.1.629 CH - 1015 Lausanne Tel : (+41) 21 693 22 72 Email: Patrick.Jermann@epfl.ch
Date of birth	November 16 th , 1969, Lausanne
Citizenship	Swiss (Zwingen, BL)
Marital status	Married, two children
Languages	French, Swiss-german, English
Professional position	<i>Research Associate</i> <ul style="list-style-type: none">▪ Consultant for learning technologies at EPFL▪ Research in the field of Computer Supported Collaborative Learning (CSCL)▪ Coordination of Innovation Fund for Teaching (FIFO)

UNIVERSITY STUDIES

2004	<i>Doctoral Program in Psychology</i> Faculté de Psychologie et des Science de l'Education, University of Geneva Thesis: « Computer Support for Interaction Regulation in Collaborative Problem-solving »
1994-1996	<i>Master in Learning and Instructional Science and Technologies</i> Sciences et Technologies de l'Apprentissage et de la Formation (STAF). TECFA, Faculté de Psychologie et des Sciences de l'Education, University of Geneva. Thesis : « Conception et analyse d'une interface semi-structurée dédiée à la co-résolution de problème. »
1990-1994	<i>Degree in Psychology</i> University of Lausanne and University of Geneva Thesis : « C.G. Jung et la religion »
1986-1989	<i>Federal Maturity, type C</i> Gymnase Cantonal de la Cité, Lausanne

PROFESSIONAL EXPERIENCE

- 2000-2003 *Research Associate*
- Learning Research and Development Center, University of Pittsburgh.
- Research about collaborative interaction regulation
 - Design and implementation of online learning environments.
- 1996-2000 *Research Assistant*
- TECFA, University of Geneva.
- Research about collaborative interaction regulation
 - Design and implementation of the TECFA virtual campus
 - Internet servers administration
- 1994-1996 *Research Assistant*
- TECFA, University of Geneva. National Research Program NRP33: "Effectiveness of Swiss Educational Systems",
- Survey on the state of research in the domain of educational technologies
 - Organization of a 2 days working conference
 - Implementation and supervision of a WWW server dedicated to educational research (AGORA)

TECHNICAL SKILLS

Programming languages	JAVA, Javascript, PHP, Python, MOO, Tcl/Tk, Authorware, etc.
Statistical packages	SPSS, R, Splus
Internet	HTML, CSS, XML, XSL, SVG, VRML, SQL, MOO, etc.

MAIN SYSTEMS DEVELOPED

- TECFA virtual campus. Numerous learning activities for presence and distance learning. Technologies used: PHP and SQL.
- Collaborative traffic simulator. Research environment for collaborative problem-solving. Technology: JAVA.
- Online Planning and Study Environment (OPSE). Learning environment dedicated to professional development and unit planning. Technologies used: PHP, XML, XSL et SQL.
- Teamframes. Pedagogical project management. Technologies used: PostNuke, PHP, XML, XSL et SQL.

TEACHING

UNIVERSITY COURSES

- Human-Machine Interaction. Undergraduate course at the Faculty of Psychology and Educational Sciences, University of Geneva. Responsible for the practical work sessions on Authorware, presentations on collaborative learning and virtual environments
- Masters in Learning and Instructional Science and Technologies. Presentations on databases and related scripting techniques.
- Teaching with Internet. Training sessions organized by the University of Geneva. Introduction to HTML and PHP, presentations on collaborative learning.
- Distributed Cognitive Systems (summer semester 2005-2006). Doctoral course in Computer Science, EPFL. In collaboration with Pierre Dillenbourg.

SHORT COURSES

- P. Dillenbourg and P. Jermann, "Comment structurer le travail des étudiants: J'ai installé un forum et après?". Training session for EPFL, UniGe and UNIL teachers, réseau RCFE, November 14, 2003.
- P. Dillenbourg and P. Jermann, "CSCL", Training session for HES teachers, réseau RCFE, April 30, 2004.
- P. Dillenbourg and P. Jermann, « J'ai mis mon polycopié sur le web et après ? », Training session for réseau RCFE, January 28, 2004
- P. Dillenbourg and P. Jermann. "Panorama des technologies de formation et modèles pédagogiques – Partie 2". EPFL, Lausanne, 23 janvier 2004.
- P. Dillenbourg and P. Jermann. "Panorama des technologies de formation et modèles pédagogiques – Partie 3". EPFL, Lausanne, 30 avril 2004.
- P. Dillenbourg and P. Jermann. "Panorama des technologies de formation et modèles pédagogiques – Partie 4". EPFL, Lausanne, 4 juin 2004.
- P. Dillenbourg and P. Jermann, « Exploiter un forum et des outils collaboratifs », Training session for réseau RCFE, December 1, 2004.

PUBLICATIONS

BOOKS

- Mendelsohn P. & Jermann P. (1997) – "La recherche en Suisse dans le domaine des Nouvelles Technologies de l'Information appliquées à la formation". Rapport de tendances au FNRS, PNR 33: « Efficacité de nos systèmes de formation ». Requête N° 4033-40137.

BOOK CHAPTERS

- Dillenbourg, P. Mendelsohn, P. & Jermann, P. (1999) – Why spatial metaphors are relevant to virtual campuses. In Levonen, J. & Enkenberg, J. (Eds.). Learning and instruction in multiple contexts and settings. Bulletins of the Faculty of Education, 73. University of Joensuu, Finland, Faculty of Education.

- Dillenbourg P. & Jermann, P. (2002) – Internet au service de l'innovation. In R. Guir (Ed). La formation des enseignants au nouveaux usages et aux nouvelles pratiques des technologies de l'information et des réseaux. Bruxelles: DeBoeck.
- Jermann, P. & Dillenbourg, P. (2003) – Elaborating new arguments through a CSCL scenario. In Andriessen, J., Baker, M. & Suthers, D. (Eds.) *Arguing to Learn: Confronting Cognitions in Computer-Supported Collaborative Learning Environments*. Kluwer, Amsterdam, NL.
- Jermann, P., Soller, A. & Lesgold, A. (2004) – Computer Software Support for Collaborative Learning. In Strijbos, J.-W., Kirschner, P. & Martens, R. (Eds). *What We Know About CSCL in Higher Education*. Kluwer, Amsterdam, NL.

JOURNAL PAPERS

- Soller, A., Martinez, A., Jermann, P., & Muehlenbrock, M. (2005) - From Mirroring to Guiding: A Review of State of the Art Technology for Supporting Collaborative Learning. *INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE IN EDUCATION*, 15, 261-290.

CONFERENCE PROCEEDINGS

- Dillenbourg, P., Jermann, P., Buiu C., Traum, D. & Schneider D. (1997) – The design of MOO agents: Implications from an empirical CSCW study. *Proceedings 8th World Conference on Artificial Intelligence in Education*, Kobe, Japan.
- Jermann, P., Dillenbourg, P. & Brouze, J.-C. (1999) – Dialectics for collective activities: an approach to virtual campus design. *Proceedings of the 2nd International conference on new learning technologies*, Bern, August 99.
- Jermann, P., Dillenbourg, P. & Brouze, J.-C. (1999) – Dialectics for collective activities: an approach to virtual campus design. In S.P. Lajoie and M. Vivet (Eds.) *Artificial Intelligence in Education*. IOS Press. pp.570-577.
- Jermann, P. & Dillenbourg, P. (1999) – An analysis of learner arguments in a collective learning environment. *Proceedings of the Third CSCL Conference*, Stanford, December 1999.
- Jermann, P., Soller, A., & Muehlenbrock, M. (2001). - From mirroring to guiding: A review of the state of art technology for supporting collaborative learning. In P. Dillenbourg, A. Eurelings, & Kai Hakkarainen (Eds.), *Proceedings of the European Conference on Computer-Supported Collaborative Learning EuroCSCL-2001* (pages 324-331). Maastricht, The Netherlands, March.
- Dillenbourg, P., Ott, D., Wehrle, T., Bourquin, Y., Jermann, P., Corti, D. & Salo, P. (2002). The socio-cognitive functions of community mirrors. In F. Flückiger, C. Jutz, P. Schulz and L. Cantoni (Eds). *Proceedings of the 4th International Conference on New Educational Environments*. Lugano, May 8-11, 2002.
- Jermann, P. (2002) – Task and Interaction Regulation in Controlling a Traffic Simulation. In G Stahl (Editor), *Computer Support for Collaborative Learning: Foundations for a CSCL Community*. Proceedings of CSCL 2002. Boulder, CO (2002).

REPORTS, ACADEMIC PUBLICATIONS, INTERNAL NOTES

- Mendelsohn, P., Jermann, P. Peraya, D. & Dillenbourg, P. (1995) - “La Recherche en Suisse dans le domaine des Nouvelles Technologies de l'Information Appliquées à la Formation”.

Pré-Rapport pour le PNR 33 (Efficacité de nos Systèmes de Formation). TECFA- document 95-1 (80 p.) - FPSE, Université de Genève.

- Jermann, P. (1996) - Mémoire de DES STAF. "Conception et analyse d'une interface semi-structurée dédiée à la co-résolution de problème". FPSE, Université de Genève.
- Jermann, P. (2004). Computer Support for Interaction Regulation in Collaborative Problem-Solving. Doctoral Dissertation, University of Geneva.

NON ACADEMIC PAPERS

- Dillenbourg P. & Jermann P. (1995) - "Le paradoxe de la machine 'sociale' ". Interface. Magazine suisse pour l'utilisation de l'ordinateur dans l'enseignement , 2 (95), p. 16 - 19.
- Jermann, P. & Mendelsohn, P. (1996) - "Edutainment": les raisons d'un succès. Interface 4/96, 11-13.
- Jermann P. & Dillenbourg P. (1996) - "Stratégies de sélection des items dans les tests adaptatifs". Interface, 2, pp. 11-12.
- Dillenbourg, P. Jermann, P & Pelgrims Ducrey, G. (1997) - "L'ordinateur en classe et le mythe de l'individualisation". Educateur, 8.
- Jermann, P. & Mendelsohn, P. (1997) - "Edutainment : les raisons d'un succès". Informatique et Formation n° 33 juin 97, 26-31.
- Jermann, P., Nova, N., & Girardin, F. (2004) – « Blogs : scénarios académiques ». Flash Informatique du 1 juin 2004. Retrieved May 28, 2004 from http://dit.epfl.ch /SA /SPIP /SPIP-v1-7 /article.php?id_article=545.
- Jermann, P. (2005) - "24 novembre 2004 : Journée FIFO et Technologies de la Formation". Flash no 12, 12.10.2004.
- Jermann, P., & Girardin, F. (2005) - "Vers l'intégration des technologies dans l'enseignement". Flash Informatique, numéro spécial été, 31.08.2004.

PRESENTATIONS

CONFERENCES

- "A swiss Academic Experiment in learning about Technologies through Networking Tools". Presented at EDEN conference, June 23-25 1997. Budapest, Hungary.
- "Humanities - A European project using a multidimensional learning environment". Presented at EDEN conference, June 23-25 1997. Budapest, Hungary.
- "Why spatial metaphors are relevant to virtual campuses ?" Presented at Formation et travail, septembre 1998, Zürich., Switzerland.
- "Dialectics for collective activities: an approach to virtual campus design". Presented at AI&ED99, Le Mans, France.
- "Dialectics for Collective Activities: An Approach to Virtual Campus Design". Presented at the 2nd International Conference on New Learning Technologies. 30 - 31 August 1999 at University of Berne, Switzerland.

- “From Mirroring to Guiding: A Review of State of the Art Technology for Supporting Collaborative Learning”. Presented at ECSCLO1, March 2001, Maastricht, The Netherlands.
- “Task and Interaction Regulation in Controlling a Traffic Simulation”. Poster presented at CSCL 2002, January 7-11 2002, Boulder, Colorado, USA.

INVITED WORKSHOPS

- “CSCL scripts and group mirrors”. 4th CRAC (Grid and Peer-to-Peer Middleware for Cooperative Learning Environments) Workshop, Valladolid (Spain), June 17, 2004.

SEMINARS AND WORKSHOPS

- “AGORA, un serveur de communication dédié aux Sciences de l'Education”, Internet à tous prix ? December 11-12, 1996. Morat, Switzerland.
- “Semi-structured interface in collaborative problem-solving”. First swiss workshop on distributed and parallel systems. May 2, 1997. Lausanne, Switzerland. (with D.Schneider)
- “Interface semi-structurée et résolution de problèmes collaborative”, 6èmes Rencontres Scientifiques du Corps Intermédiaire de Psychologie. May 22, 1997. UNIGE-FPSE, Genève, Switzerland.
- “Internet Einführung”, Informatik Aktuell'97. Murten, May 23-24, 1997.
- “MOO: Multi-Benutzer Welten für kollaboratives Lernen und Forschen”. Berufspädagogischer Internet Apéro. September 23, 1997. Zürich, Switzerland.
- “Virtual agents and awareness tools in educational MUVE space”. 2nd Annual Workshop on System Aspects of Sharing a Virtual Reality. June 1998. Manchester, UK. (with D. Schneider)
- “Régulation de l'interaction dans les situations de résolution de problème collaborative”. Journée d'études sur les interactions médiatisées par ordinateur. May 28, 1999. Université Lumière-Lyon 2, France.
- “Structuring and regulating collaborative interaction by semi-structured interfaces and interaction meters”. Workshop on Analysing Educational Dialogue Interaction, AIED 99. July 19-20, 1999. Le Mans, France.
- “TECFA Virtual Campus: concepts and examples”, Infobörse und Symposium neue Lerntechnologien. December 3, 1999: Basel, Switzerland.
- “Learner's Arguments in a Collective Learning Environment”. 2000. University of Maryland, USA.
- “TECFA Virtual Campus”. Netlearn National Meeting. January 10-11 2001 Pittsburgh, USA.
- “Task and Interaction Regulation in Controlling a Traffic Simulation”. Doctoral School. March 25-28, 2002 Les Diablerets, Switzerland.
- “The Online Study and Planning Environment”. District Technology Facilitators Conference. November 6, 2002. Pittsburgh, USA.
- « Les technologies de formation à l'EPFL, une vue d'ensemble. » at « Tic-Talk - Apprendre dans la société de l'information », EPSIC, Lausanne, October 8th, 2003.
- « Mobile devices and bricolages underway at CRAFT ». Presented at MOSIL (MOBILE Support for Integrated Learning) workshop, March 9, 2004. Grenoble, France.

- « Supporting interaction regulation through interaction meters ». Presented at ICALTS (Interaction & collaboration analysis supporting teachers and students' self-regulation) workshop, March 12, 2004. Grenoble, France.
- « A glimpse at collaborative interaction: Three examples of indicators». ICALTS workshop, Rhodes (Grèce), July 7, 2004.
- « Tailoring interaction analysis for different types of users according to their (self-) regulation competence ». Interaction analysis workshop – CSCL SIG conference, Lausanne, October 8th, 2004.
- « Group Mirrors and other visualisations ... does it work at all? ». Presented at CAIF workshop, Château d'Oex, June 21-22, 2005.
- « Location Based and Ambient technologies at CRAFT ». Presented at Multiple Technologies and Tools for Supporting CSCL, Oulu, November 21st, 2005.
- « Computer Support for Interaction Regulation in Collaborative Problem-Solving ». Presented at *CSCL 2005 WS: European CSCL Research Landscape*, Taipei, May 30th, 2005.
- « Planning congruence in dual spaces? ». Presented at the “Dual Interaction Spaces” workshop at *CSCL 2005*, Taipei, June 1st, 2005.

ROUND TABLES AND PANELS

- Discutant in the forum organized by the “Fondation Science et Cité” and University of Lausanne: « Tic-Talk - Apprendre dans la société de l'information », EPSIC, Lausanne, October 8th, 2003.
- Discutant in the panel “Challenging research problems of 1:1 educational computing from now to 2020“. Second IEEE International Workshop on Wireless and Mobile Technologies In Education (WMTE 2004) March 23-25, 2004. National Central University, Taiwan.

ACADEMIC AND SCIENTIFIC RESPONSIBILITIES

JURYS

- Winter semester 2003-2004. Supervision of semester and diploma projects in Computer Science at EPFL: A. Lopes, V. Ratiu, C. Haulbert and N. Jones, in collaboration with P. Dillenbourg and C. Vanoirbeek.
- Summer semester 2004-2005. Supervision of semester and diploma projects in Computer Science at EPFL: G. Chevrier, N. Arenaza, M. Krebs in collaboration with P. Dillenbourg.
- Member of jury of Dana Torres master project (DESS en Sciences et Technologies d'apprentissage et de Formation), University of Geneva.
- Winter semester 2004-2005. Supervision of semester projects in Computer Science at EPFL: J. Caffaro, A. Lagger, G. Dyke: “MagMap & MagLib, Implementation of a Virtual Magnets Driven Interface for Browsing Blogs”.
- Winter semester 2005-2006. Supervision of master project in Computer Science at EPFL: H.-Y. He, “Visualization of Online Interaction”.

PROGRAM COMITEES

- 6th International Conference on New Educational Environments (ICNEE). 27 - 30 September 2004, University of Neuchâtel (Switzerland).

- Workshop : CLAG 2005 Collaborative and Learning Applications of Grid Technology and Grid Education, held at IEEE International Symposium on Cluster Computing and the Grid (CCGrid 2005), Cardiff, May 9-12, 2005.
- Workshop « Representing and Analyzing Collaborative Interactions », held at AIED 2005, July 18, Amsterdam.

SCIENTIFIC COMITEES

- Member of the scientific comitee of the Journal of Italian Association of Elearning (Siel.it www.sie-lit)

EXPERT COMITEES

- Since 2003, member of the expert group for the project « Partenariat Privé-Public, Ecole sur le net » (PPP-ésn), OFFT.
- Leader of the technical working group “Evaluation d’une plateforme E-Learning en logiciel libre” for the Campus Virtuel Suisse, CRUS, 2006.

WORKSHOP ORGANISATION

- Co-organizer of the working conference “New learning technologies: the state of research in Switzerland”, April 6-7, 1995. Geneva, Switzerland.
- Co-organizer of the workshop “Teaching and Learning with the WWW: Learning from the past”, 6th International World Wide Web Conference, April 7-11, 1997. Santa Clara, USA.
- Co-chair of the workshop “Designing Computational Models of Collaborative Learning Interaction”, CSL2002, Boulder, January 7th, 2002. Colorado, USA.
- Organizer of the “Journée des Technologies de Formation à l’EPFL”, October 13th, 2003, EPFL, Lausanne.
- Co-chair of the workshop “The 2nd International Workshop on Designing Computational Models of Collaborative Learning Interaction”, ITS 2004, Maceio, Brazil, August 30-31, 2004