



**Dr. techn. Gergely RAKOCZI**

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## Curriculum vitae

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### Personal Information:

Date of Birth:	20 <sup>th</sup> July 1983
Place of Birth:	Sárvár (Hungary)
Citizenship:	Hungarian
Marital Status:	Relationship

### Education:

05/2009 – 10/2014	<b>Doctoral Study on Technical Science</b> at Vienna University of Technology - Research field: : „ <i>Analysis of eye movements in the context of e-learning: Design - Recommendations for eye-efficient user interfaces</i> “
10/2012 – 12/2012	<b>Scientific Study</b> at Clemson University, School of Computing, South Carolina, USA jointly with Prof. Andrew Duchowski on Eye Tracking Research.
10/2006 – 03/2009	<b>Double degree</b> at Vienna UT: Postgraduate Studies <b>Media and Computer Science</b> and <b>Computer Management</b> - Focus of Studies: <i>Multimedia-Design, E-Learning</i> - Master thesis: „ <i>Investigation of user-behavior in the context of e-learning: Eye tracking Study of the learning platform</i> “
09/2008 – 02/2009	<b>Erasmus Exchange Semester</b> at University of Surrey in Guildford, England
10/2002 – 10/2006	<b>Undergraduate Study Media and Computer Science</b> at Vienna UT - Bachelor thesis : „ <i>Online Shops – Theory, Analysis and Praxis</i> “
09/1994 – 05/2002	<b>Grammar School</b> in Neunkirchen, Austria

## Academic Achievements:

- University Master Degrees passed with honours
- All Grammar school years as well as the Final examination passed with honours (1994 until 2002)
- Academic Excellence Scholarship, Vienna UT (fall semester 2006 and spring semester 2007).

## Academic History:

since 02/2009

**Employee at Teaching Support Center** at Vienna UT (former „E-Learning Center“):

- E-Learning web development, multimedia authoring and technical as well as didactical consulting, support, training and communication
- Technical administration, development and quality ensurance of the central Moodle platform „TUWEL“ as well as other e-learning services of Vienna UT
- Leading positions in cooperation network „Academic Moodle Cooperation“ (Heading of the work group „documentation & training“ as well as product owner of Scrum-development)
- Contribution to different services (TUWEL, Lecturetube, streaming services, Academic Moodle Cooperation etc.)
- Participation in e-learning networks: Academic Moodle Cooperation, Moodle Community, FNMA, GMW, IEEE Computer Society etc.

since 09/2009

**Academic Lecturer** in the context of e-learning

since 11/2009

**Publications** in the fields of „e-learning“, „eye tracking“, „usability“ as well as „web-conferencing“, see:

<http://publik.tuwien.ac.at/program/dosearch.php?stext=rakoczi>

05/2008 – 10/2008

**Academic assistant** at **E-Learning Center** at Vienna UT

09/2007 – 02/2008

**Academic assistant** of Prof. Dr. Ina Wagner, Head of the Institute for Technology Assessment and Design at Vienna UT

## Reviewing Activities:

03/2016

Supervision of Master Thesis: Mag. Stefan Fersterer „Interaktion als Schlüsselfaktor im Live-Online-Training“ (Donau Universität Krems, Fachrichtung e-Education)

05/2014

**International Conference on Human Behavior in Design (HBiD)**

Since 03/2012

**Asia Pacific Conference on Computer Human Interaction (APCHI)**

since 02/2012

International Society for Media in Science - **Gesellschaft für Medien in der Wissenschaft**

since 08/2011

Austrian Journal for Development of Higher Education - **Zeitschrift für Hochschulentwicklung (ZFHE)**

since 02/2009

Austrian Moodle Conference - **MoodleMoot Austria**

## Areas of Research:

- Eye Tracking Research in the context of Usability and User Interface Design
- Development of E-Learning Technology
- Computer-Supported Learning as well as Teaching
- Web-based Communication in the field of E-Tutoring

## Further Professional Experience:

since 07/2011	<b>Business licence for „IT &amp; Consulting“ and freelancer as IT-specialist for learning solutions and differenc multimedia projects</b> (Project-Basis) <ul style="list-style-type: none"><li>- Development of e-learning products</li><li>- Multimedia-authoring, content creation, IT training</li><li>- Other IT services</li><li>- Reference: Assekurisk, ETH Zürich, Procon Unternehmensberatung, Trotec Laser Österreich etc.</li></ul>
05/2006 – 05/2011	<b>Co-worker at Infracom GmbH</b> on behalf of <b>mobile phone service provider Drei (Hutchinson AG)</b> (Employment on project-basis) <ul style="list-style-type: none"><li>- Nationwide project- and teammanagement, Shop-design</li></ul>
07/2004	<b>Graphic artist and web designer</b> (Creation of Images and Design for company homepage) at <b>Anna Gold</b> in Vienna
07/2002 – 09/2002	<b>Co-worker at an IT project</b> at <b>Sparkasse Neunkirchen</b>
08/2001	<b>Web designer</b> (Drafting & implementation) at <b>Askador Informationstechnology GmbH</b> in Pottschach

## Computer Skills:

Multimedia authoring & Design:	Outstanding knowledge in <b>audio-, graphic- and video processing</b> with Adobe products (Photoshop, Premiere, Audition, Indesign, Flash etc.) as well as various other multimedia tools
Office products:	Good skills with <b>Microsoft Office software</b> (Word, Excel, PowerPoint, FrontPage, Visio, Project) and <b>operating systems</b> such as Windows 95, 98, ME, XP, 7
E-learning:	Good front and backend skills at <b>CMS as well as LMS (Moodle)</b> and <b>authoring tools</b> as Adobe Captivate, Camtasia Studio of eXlearn
Web-development:	Good knowledge of <b>Typo3, Adobe Dreamweaver</b> and <b>CSS, HTML, XML</b> as well as CVS Repositories
Programming:	Good skills in Java, JavaScript, DTD, SMIL, SVG, Basics in C++
Further skills:	gStreamer Multimedia Framework, LaTeX, MatLAB, iShell, Processing, Web 2.0 communication tools (such as Adobe Connect Pro), Eye Tracking Analysis Software from Tobii and ASL, database management (SQL, PLSQL)

## Languages:

Hungarian:	mother tongue
German:	mother tongue level
English:	fluent in spoken and written
Spanish:	basic knowledge

## Further qualification:

- Student representative for the undergraduate Study of Computer Management at Vienna UT
- Qualification „Project management (Teamleading und Management)“ at Vienna UT
- Qualification „Microsoft Project“ at Vienna UT

## Personal, did you know ...?

... I like traveling and night photography?

... I like leisure activity such as basketball, tennis, European-wide cycling tours and watching formula 1?

... my Android App „Kalorientabellen“ has more than 170.000 downloads?

Wiener Neustadt, March 24<sup>th</sup> 2016

## APPENDIX – List of Publications (<http://publik.tuwien.ac.at/program/dosearch.php?stext=rakoczi>)

### Books:

G. Rakoczi: "Userverhalten beim E-Learning - Eine Eye Tracking Studie des Lernsystems Moodle"; VDM Verlag Dr. Müller, Saarbrücken, Deutschland, 2010, ISBN: 978-3-639-25388-7; 176 S.

### Book Contributions:

G. Rakoczi, Y. Bochud, M. Garbely, A. Hedinger, M. Pohl: "Sieht gut aus - Visuelle Gestaltung auf wahrnehmungspsychologischen Grundlagen"; in: "Lehrbuch für Lernen und Lehren mit Technologien", M. Ebner, S. Schön (Hrg.); epubli GmbH, Berlin, 2013, ISBN: 9783844265941, S. 427 - 434.

K. Kleiner, G. Rakoczi, S. Krimm: "Blickbewegungsverläufe (mobiles Eye-Tracking) als Element sportdidaktischer Lehr-Lern-Forschung"; in: "Fachdidaktik "Bewegung und Sport" im Kontext: Zwischen Orientierung und Positionierung", K. Kleiner (Hrg.); Verlag Brüder Hollinek, Purkersdorf, 2012, S. 138 - 152.

B. Ertl, K. Helling, I. Herbst, M. Pächter, G. Rakoczi: "Lernen mit Videokonferenzen - Szenarien, Anwendungen und Praxistipps"; In: "L3T Lehrbuch für Lernen und Lehren mit Technologien", M. Ebner, S. Schön (Hrg.); epubli GmbH, Berlin, 2011, ISBN: 9783844204377, S. 249 - 256.

### Conference Proceedings:

I. Herbst, G. Rakoczi: "Is there still a Need to enhance e-Communication Skills and e-Moderation skills of Students at a Technical University?"; in: "INTED 2015 Publication", A. Martinez, L. Chova, I. Torres (Hrg.); herausgegeben von: IATED Academy; IATED Academy, Madrid, Spain, 2015, ISBN: 978-84-606-5763-7, S. 4689 - 4694.

G. Rakoczi, A. Duchowski, H. Casas-Tost, M. Pohl: "Visual Perception of International Traffic Signs: Influence of e-Learning and Culture on Eye Movements"; in: "ETSA '13 Proceedings of the 2013 Conference on Eye Tracking South Africa", ACM, New York, 2013, ISBN: 978-1-4503-2110-5, S. 8 - 16.

G. Rakoczi: "Benefits and Challenges of Iterative Eye Tracking Tests: Evaluation of gaze data to enhance an e-Learning Platform's Usability"; in: "Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2012", herausgegeben von: ED Media 2012; Ed/IT Lib Digital Library, Denver, Colorado, United States, 2012, S. 1168 - 1173.

G. Rakoczi, M. Pohl: "Visualisation and Analysis of Multiuser Gaze Data: Eye Tracking Usability Studies in the Special Context of e-Learning"; in: "12th IEEE International Conference on Advanced Learning Technologies", herausgegeben von: IEEE Computer Society Publications; IEEE Computer Society, 2012, ISBN: 978-0-7695-4702-2, S. 738 - 739.

G. Rakoczi: "Eye Tracking in Forschung und Lehre: Möglichkeiten und Grenzen eines vielversprechenden Erkenntnismittels"; in: "Digitale Medien: Werkzeuge für exzellente Forschung und Lehre", F. Reichl, G. Csanyi, A. Steiner (Hrg.); Digitale Medien: Werkzeuge für exzellente Forschung und Lehre, Münster (2012), ISBN: 978-3-8309-2741-9; S. 87 - 98.

G. Rakoczi, I. Herbst: "Ein Praxisbericht zur Steigerung der Lehrqualität sowie der studentischen Kollaboration: Ist Webconferencing das richtige Tool?"; in: "Wissensgemeinschaften Digitale Medien - Öffnung und Offenheit in Forschung und Lehre", T. Köhler, J. Neumann et al. (Hrg.); Waxmann Verlag GmbH, Münster, 2011, ISBN: 978-3-8309-2545-3, S. 349 - 351.

G. Rakoczi: "Cast your Eyes on Moodle: An Eye Tracking Study investigating learning with Moodle"; Talk: 4th International Slovenian MoodleMoot 2010, Koper, Slowenien; 21.05.2010; in: "Moodle.si 2010 - 4th International Conference Proceedings", Koper (2010), ISBN: 978-961-266-066-6; S. 203 - 213.

G. Rakoczi: "Evaluation of eye movements: How do students perceive teaching materials within Moodle?"; Talk: MoodleMoot.cz 2010, Brno, Tschechien; 10.06.2010 - 11.06.2010; in: "Publikace Moodle v síti", T. Váňová, A. Váňová (Hrg.); (2010).

G. Rakoczi, I. Herbst: "Conceptual Design of a Requirement-based E-Tutoring Course at Vienna University of Technology: Increasing Students' Motivation by Using Videoconferencing"; in: "Proceedings of EDULEARN10 Conference", IATED - International Association of Technology, Education and Development, Valencia (2010), ISBN: 978-84-613-9386-2; S. 5585 - 5591.

G. Rakoczi, I. Herbst: "Wie viel Qualifikationen brauchen E-Tutorinnen und E-Tutoren an einer Technischen Universität und welchen Einfluss hat Videoconferencing auf die Motivation?"; in: "Digitale Medien für Lehre und Forschung", S. Mandel, M. Rutishauser, E. Seiler Schiedt (Hrg.); Waxmann Verlag GmbH, Münster, 55 (2010), ISBN: 978-3-8309-2385-5; S. 131 - 143.

G. Rakoczi, I. Herbst, F. Reichl: "*Nine Recommendations for Enhancing e-Moderation Skills by Utilisation of Videoconferencing within an e-Tutoring Curriculum*"; in: "*Proceedings of ED-MEDIA 2010*", C. Montgomerie, J. Herrington, B. Hunter (Hrg.); Association for the Advancement of Computing in Education (AACE), Chesapeake (2010), ISBN: 1-880094-73-8; S. 2258 - 2266.

G. Rakoczi, M. Pohl: "*Eye Tracking Study of the E-Learning Environment Moodle: Investigation of User Behavior*"; in: "*Proceedings of the IADIS International Conference on Cognition and Exploratory Learning in Digital Age (CELDA 2009)*", Dr. Kinshuk, D. Sampson, M. Spector, P. Isaias, D. Ifenthaler (Hrg.); IADIS Press, (2009), ISBN: 978-972-8924-95-9; S. 466 - 469.

## Talks:

G. Rakoczi: "Behalten Sie den Überblick - Semestersortierung und Kreuzerübung" sowie "Das visuelle Verhalten der User in Moodle"; Vorträge: MoodleMoot Deutschland 2015, Deutschland, Lübeck; 05.03.2015 - 06.03.2015.

G. Rakoczi: "Gemeinsame Dokumentation - So macht es die AMC"; Talk at MoodleMoot Austria 2015, Hagenberg; 07.05.2015 - 08.05.2015.

G. Rakoczi, E. Karall: "Aktivitäten und Arbeitsmaterialien - Ein Vergleich der Verteilungen verschiedener akademischer Einrichtungen"; Talk at MoodleMoot Austria 2015, Hagenberg; 07.05.2015 - 08.05.2015.

G. Rakoczi: "Technisch unterstützte Lehrinnovation - Best Practice Beispiele zeitgemäßer Lehre an der TU Wien"; Talk at Tag der Lehre der Technischen Universität Wien 2015, Wien (eingeladen); 15.04.2015.

G. Rakoczi: "*Analyse der Augenbewegungen im Kontext von E-Learning*"; Talk at Lunchtime Scientific Series, Institute for Design & Assessment of Technology, TU Vienna; 15.12.2014.

G. Rakoczi, A. Duchowski, M. Pohl: "*Designing Online Tests For A Virtual Learning Environment - Evaluation Of Visual Behaviour Between Tasks*"; Talk at International Conference On Human Behavior In Design (HBiD 2014), Ascona; 14.10.2014 - 17.10.2014.

G. Rakoczi: "*Moodle und die Augenbewegungen - Was lernen wir daraus?*"; Talk at MoodleMoot Austria 2014, Krems an der Donau; 22.04.2014 - 23.04.2014.

G. Rakoczi: "*Da schau her! Augenfreundliche Gestaltung von e-Learning Kursen*"; Talk at MoodleMoot Deutschland 2014, Leipzig; 26.02.2014 - 28.02.2014.

G. Rakoczi: "*Eye Tracking Studie zum Online Test-Modul von Moodle 2: Das sehen Studierende wirklich!*"; Talk at MoodleMoot Deutschland 2013, München; 28.02.2013 - 01.03.2013.

G. Rakoczi: "*Moodle-Usability aus dem multikulturellen Blickwinkel*"; Talk at MoodleMoot Austria 2013, Wien; 21.02.2013 - 22.02.2013.

G. Rakoczi: "*Effektive Kursgestaltung - Erkenntnisse der Eye Tracking Forschung nutzen*"; Talk at MoodleMoot Austria 2012, Linz; 23.02.2012 - 24.02.2012.

G. Rakoczi: "*Eye Tracking Usability Studies in the Special Context of e-Learning*"; Talk at 16. Europäische Jahrestagung der Gesellschaft für Medien in der Wissenschaft (GMW 2011), Dresden; 05.09.2011 - 08.09.2011.

G. Rakoczi, A Hruska, K. Potocka: "*Design Optimierung der Benutzeroberfläche einer zentral eingesetzten Moodle Instanz (28.000+ User) anhand von Eye Tracking*"; Talk at MoodleMoot Germany 2011, Elmshorn; 12.04.2011 - 15.04.2011.

G. Rakoczi, A Hruska, K. Potocka: "*Eye Tracking Moodle: How to improve its usability and what do students really see?*"; Talk at MoodleMoot UK 2011, London; 19.04.2011 - 20.04.2011.

G. Rakoczi, A Hruska, K. Potocka: "*TUWEL Design-Optimierung anhand von Eye Tracking*"; Talk at MoodleMoot Austria 2011, Wien; 24.02.2011 - 25.02.2011.

G. Rakoczi, S. Krimm: "*Eye Tracking im Einsatz zur Fehlererkennung und Fehlerwahrnehmung im Unterricht "Bewegung und Sport"*"; Talk at IX. Internationale Sommerakademie und Tag der Fachdidaktik, Wien (eingeladen); 17.05.2010 - 21.05.2010.

G. Rakoczi: "*Eye Tracking im E-Learning - Kognitive Wahrnehmung im Lernprozess*"; Talk at 15. Jahrestagung der Gesellschaft für Medien in der Wissenschaft (GMW 2010), Zürich, Schweiz; 13.09.2010 - 15.09.2010.

G. Rakoczi: "Das visuelle Verhalten der User in Moodle"; Talk at MoodleMoot Deutschland 2015, Deutschland, Lübeck; 05.03.2015 - 06.03.2015.