

Srecko Joksimovic

Curriculum Vitae

Office DP1-02, David Pank Building
City West Campus, 160 Currie Street
Adelaide 5000, Australia
☎ +61 (0) 456 383 151
✉ srecko.joksimovic@unisa.edu.au
🌐 <http://sjoksimovic.info>

Research Interests

Learning Analytics, Learning Science, Social Computing and Social Learning/Working, Data Analytics/Science, Social Network Analysis, Social Media, Online & Distance Education, Massive Open Online Courses.

Research Summary

My research interests center on the analysis of teaching and learning in **networked learning** environments. I am particularly interested in developing **theory-driven data-informed analytics models** for assessing the quality of learning in **computer-mediated** context, generating insights into factors that promote effective **collaborative learning** and informing the design of **digital environments** in which collaborative learning occur.

I am a Data Scientist at the Teaching Innovation Unit and a Research Fellow at the School of Education, University of South Australia. I am also an executive committee member and Website Portfolio Chair of the Society for Learning Analytics Research (SoLAR). I obtained my Ph.D. in Learning Analytics at the Moray House School of Education, University of Edinburgh, United Kingdom in 2017, under the supervision of Prof. Dragan Gasevic.

Academic Positions

- Nov 2017 - present **Data Scientist**, *Teaching Innovation Unit, University of South Australia, Adelaide, Australia.*
- Development of learning analytics models to identify underlying learning patterns and associations with learning outcomes.
 - Utilization of multiple internal sources to devise theory-informed, data-driven solutions which improve learning outcomes in programs and courses across the University.
 - Development of statistically grounded early interventions for students, ensuring timely and effective feedback is provided to facilitate student success.
 - Collaboration with Academic Developers and UniSA Online teaching staff to identify opportunities to improve teaching delivery and maximise student learning outcomes.
- Nov 2017 - present **Research Fellow**, *School of Education, University of South Australia, Adelaide, Australia.*
- Research in the area of Learning analytics and complex skills assessment in a timely and formative manner.
 - Development of the analytics-based models that would allow for comprehensive understanding of learning in complex educational settings.

Industry Experience

- Apr 2009 - Feb 2013 **Head of IT Section**, *Simulation Training Center, Serbian Armed Forces, Belgrade, Serbia.*
- Organizing, planning and managing of IT support and training for the Military Simulation exercises.
 - Planning and implementation of distributed simulations; research in simulation area (wide range of simulations – constructive, live, virtual simulations, and gaming) with diverse stakeholders.
- Sep 2006 - Apr 2009 **Software developer and network administrator**, *The Guard, Serbian Armed Forces, Belgrade, Serbia.*
- Design and implementation of software applications;
 - Training and professional development;
 - Computer network administration.

Education

2015 - 2017 **Ph.D in Learning Analytics**, *Moray House School of Education, The University of Edinburgh*, Edinburgh, UK.

Thesis: "An analytics-based approach to the study of learning networks in digital education settings".

Principal Supervisor: Professor Dragan Gasevic, University of Edinburgh, UK

Co-supervisors: Professor Sian Bayne, University of Edinburgh, UK, and
Professor Marek Hatala, Simon Fraser University, Canada

Research topics:

- Learning analytics for social learning/working environments;
- Complexity of teaching and learning in distributed settings, including social media;
- Design of social media for working and learning;
- Conceptual analytical model for assessing learning in networked settings.

2013 - 2015 **Ph.D in Information Technologies**, *Simon Fraser University, School of Interactive Arts and Technology*, Vancouver, Canada.

(Transferred)

Supervisors: Professor Dragan Gasevic and Professor Marek Hatala

Transferred to a Ph.D. program at the University of Edinburgh, after Professor Gasevic got appointed the Chair of Learning Analytics at the University of Edinburgh.

Sep 2001 - Sep 2006 **B.Sc and M.Sc in Information Systems**, *Belgrade University, Military Academy*, Belgrade, Serbia.
GPA: 9.03 out of 10.

Thesis title: Database access unification using Web Services.

Scholarships, Honors and Awards

2015 Graduate Studentship, Moray House School of Education, University of Edinburgh.

2015 Best paper award at the 5th International Conference on Learning Analytics and Knowledge (LAK 2015).

2015 Best paper award at HERDSA15 Conference, Higher Education Research and Development Society of Australia Inc.

2015 Graduate Fellowship, Faculty of Communication, Art and Technology, Simon Fraser University.

2015 Helmut & Hugo Eppich Family Graduate Scholarship (GESR188).

2014 Graduate Fellowship, Simon Fraser University.

2014 Best paper award runner-up at the 4th International Conference on Learning Analytics and Knowledge (LAK 2014).

2013 3rd Prize at the 1st LAK Data Challenge, held at the 3rd International Conference on Learning Analytics and Knowledge (LAK 2013).

Research Funding and Grants

Jan 2017 - Jun 2017 **The University of Edinburgh, UK, Principal's Teaching Award Scheme (PTAS).**

Exploring Flexible Modes of Online Education (Status: **Current**; Period: Jan 2017–Jun 2017; Budget total: £4,701; Funding: The University of Edinburgh). PI: Areti Manataki, co-PIs: Dragan Gasevic, Anne-Marie Scott, Srecko Joksimovic, and Vitomir Kovanovic.

Jul 2015 - Jan 2016 **Jisc micro-projects: supporting innovation in learning analytics.**

Automated System for Cognitive Presence Coding (Status: Completed; Period: July 2015–Jan 2016; Budget total: £5,000; Funding: Jisc–Micro projects 2015). PI: Vitomir Kovanovic, co-PIs: Srecko Joksimovic and Dragan Gasevic.

Jan 2016 - Jul 2016 **SRI International Analytics for Learning paper series: "Measurement in digital environments".**

Chapter proposal: Studying learning in non-formal, digital educational settings (Status: In press; Period: January 2016–Jul 2016; Budget total: \$1,000; Funding: SRI International). PI: Srecko Joksimovic, co-PIs: Dragan Gasevic, Sian Bayne, Marek Hatala, Shane Dawson, and Vitomir Kovanovic.

Professional Experience

Apr 2016 - **SoLAR Website Portfolio Chair**, *The Society for Learning Analytics Research (SoLAR)*.

Apr 2015 - **Executive committee member (an elected position)**, *The Society for Learning Analytics Research (SoLAR)*.

Aug 2014 - **edX Data Czar**, *University of Texas Arlington, United States.*
Research Associate
May 2015 - Oct 2017 University of Edinburgh, United Kingdom.
Research Assistant
Aug 2015 - Oct 2017 LINK Research Lab, University of Texas Arlington, United States,
Jul 2014 - Jan 2015 Athabasca University, Canada,
Apr 2013 - May 2015 Simon Fraser University, Canada.
Visiting researcher
Mar 2016 University of South Australia, Australia,
Oct 2015 LINK Research Lab, University of Texas at Arlington, United Kingdom
May 2015 - Jul 2015 CSAIL, Massachusetts Institute of Technology, United States.

Membership in Professional Organizations

Society for Learning Analytics Research (SoLAR),
International Council for Open and Distance Education (ICDE),
Association for Computing Machinery (ACM),
IEEE Education Society,
InterLab (<http://interlab.me>).

Publications

Overview Broadly published in the area of technology enhanced learning with a focus in applied computer science and education venues.

h-index: 16 (Google Scholar)

i10-index: 20 (Google Scholar)

Citations: 729 (Google Scholar, see <http://bit.ly/sjoksimovic>)

Journal papers

- J.020.S Dowell Nia, Brooks Christopher, Kovanovic Vitomir, **Joksimovic Srecko**, Waters Zak, and Gasevic Dragan: "The Future of Educational Discourse: Sociotechnical Shifts and Their Impact for Educational Researchers", *Educational Researcher*, 2017 (under review);
- J.019.S **Joksimovic Srecko**, Dowell Nia, Gasevic Dragan, Mirriahi Negin, Dawson Shane, and Graesser, Arthur C.: "Linguistic Characteristics of Reflective States under Different Instructional Conditions: A Video Annotation Study", *Computers in Human Behavior*, 2016 (submitted);
- J.018.S Poquet Oleksandra, Kovanovic Vitomir, de Vries Peter, Hennis Thieme, **Joksimovic Srecko**, Gasevic Dragan, and Dawson Shane: "Social presence in Massive Open Online Courses", *Internet and Higher Education*, 2017 (submitted);
- J.017. Kovanovic Vitomir, **Joksimovic Srecko**, Poquet Oleksandra, Hennis Thieme, Cukic Iva, de Vries Peter, Hatala Marek, Dawson Shane, Siemens George, and Gasevic Dragan: "Exploring Communities of Inquiry in Massive Open Online Courses", *Computers & Education*, 2018 (in-press);
- J.016. Crosslin Matthew, Dellinger Justin, **Joksimovic Srecko**, Kovanovic Vitomir, Gasevic: "Customizable modalities for individualized learning: Examining patterns of engagement in dual-layer MOOCs", *Online Learning*, 2018 (in press);
- J.015. **Joksimovic Srecko**, Poquet Oleksandra, Kovanovic Vitomir, Dowell Nia, Mills Caitlin, Gasevic Dragan, Dawson Shane, Graesser, Arthur C., and Brooks Christopher: "How do we measure learning at scale? A systematic review of the literature", *Review of Educational Research* 2018 (in-press), doi.org/10.3102/0034654317740335;
- J.014. Kovanovic Vitomir, **Joksimovic Srecko**, Katerinopoulos Philip, Michail Charalampos, Siemens George, and Gasevic Dragan: "Developing a MOOC experimentation platform: Insights from a user study", *Distance Education in China*, Volume 7, Pages 16–25, 2017, [doi:10.13541/j.cnki.chinade.2017.07.002](https://doi.org/10.13541/j.cnki.chinade.2017.07.002);

- J.013. **Joksimovic Srecko**, Dowell Nia, Skrypnyk Oleksandra, Kovanovic Vitomir, Gasevic Dragan, Dawson Shane, and Graesser, Arthur C.: "Exploring the Accumulation of Social Capital in cMOOC Through Language and Discourse", *The Internet and Higher Education*, Volume 36, Pages 54–64, 2017, doi: 10.1016/j.iheduc.2017.09.004;
- J.012. Gasevic Dragan, Kovanovic Vitomir, and **Joksimovic Srecko**: "Piecing the Learning Analytics Puzzle: A Consolidated Model of a Field of Research and Practice", *Learning: Research and Practice*, Volume 3, Issue 1, Pages 63–78, 2017, doi:10.1080/23735082.2017.1286142;
- J.011. Gasevic Dragan, Mirriahi Negin, Dawson Shane, and **Joksimovic Srecko**: "Effects of instructional conditions and experience on the adoption of a learning tool", *Computers in Human Behavior*, Volume 67, Pages 207-220, 2017, <http://dx.doi.org/10.1016/j.chb.2016.10.026>;
- J.010. Slater Stefan, **Joksimovic Srecko**, Kovanovic Vitomir, Baker Ryan, Gasevic Dragan: "Tools for educational data mining: A review", *Journal of Educational and Behavioral Statistics*, Volume 42, Issue 1, 2017, doi:10.3102/1076998616666808;
- J.009. Kovanovic Vitomir, Gasevic Dragan, Dawson Shane, **Joksimovic Srecko**, Baker Ryan, and Hatala Marek: "Does time-on-task estimation matter? Implications on validity of learning analytics findings", *Journal of Learning Analytics*, Volume 2, Issue 3, Pages 81–110, 2015, doi:10.18608/jla.2015.23.6;
- J.008. **Joksimovic Srecko**, Gasevic Dragan, Kovanovic Vitomir, Riecke Bernhard E., and Hatala Marek: "Social presence in online discussions as a process predictor of academic performance", *Journal of Computer Assisted Learning*, Volume 31, Issue 6, Pages 638–654, <http://dx.doi.org/10.1111/jcal.12107>;
- J.007. **Joksimovic Srecko**, Gasevic Dragan, Loughin Thomas M., Kovanovic Vitomir, and Hatala Marek: "Learning at distance: Effects of interaction traces on academic achievement", *Computers & Education*, Volume 87, September 2015, Pages 204-217, <http://dx.doi.org/10.1016/j.compedu.2015.07.002>;
- J.006. Skrypnyk Oleksandra, **Joksimovic Srecko**, Kovanovic Vitomir, Gasevic Dragan, and Dawson Shane: "Roles of course facilitators, learners, and technology in the flow of information of a cMOOC", *The International Review of Research in Open and Distributed Learning* Volume 16, number 3, June 2015. ISSN 1492-3831. Available at: www.irrodl.org/index.php/irrodl/article/view/2170/3347;
- J.005. Kovanovic Vitomir, **Joksimovic Srecko**, Gasevic Dragan, Siemens George, and Hatala Marek: "What public media reveals about MOOCs", *British Journal of Educational Technology, Special Issue on MOOCs*, published online doi:10.1111/bjet.12277;
- J.004. **Joksimovic Srecko**, Gasevic Dragan, and Hatala Marek: "Learning Analytics for Networked Learning Models", *Journal of Learning Analytics, Special section: Sparks of the learning analytics future (LASI 2014)*, Volume 1, Number 3, 2014, p191-194, published online <http://learning-analytics.info/>;
- J.003. **Joksimovic Srecko**, Gasevic Dragan, Kovanovic Vitomir, Olusola Adesope, and Hatala Marek: "Psychological characteristics in cognitive presence of communities of inquiry: A linguistic analysis of online discussions", *The Internet and Higher Education*, Volume 22, July 2014, p1-10, published online <http://dx.doi.org/10.1016/j.iheduc.2014.03.001>;
- J.002. Gasevic Dragan, Kovanovic Vitomir, **Joksimovic Srecko**, and Siemens George: "Where is research on massive open online courses headed? A data analysis of the MOOC Research Initiative", *The International Review of Research in Open and Distance Learning*, Volume 15, Number 5, October 2014, p134-176, ISSN 1492-3831, published online <http://www.irrodl.org/index.php/irrodl/article/view/1954>;
- J.001. Gasevic Dragan, Adesope Olusola, **Joksimovic Srecko**, and Kovanovic Vitomir: "Externally-facilitated Regulation Scaffolding and Role Assignment to develop Cognitive Presence in Asynchronous Online Discussions", *The Internet and Higher Education* Volume 24, January 2015, Pages 53-65, published online <http://www.sciencedirect.com/science/article/pii/S1096751614000700>.

Conference papers

- C.016. Andres Juan Miguel L., Baker Ryan S., Gasevic Dragan, Siemens George, Crossley Scott A., and **Joksimovic Srecko**: "Studying MOOC Completion at Scale Using the MOOC Replication Framework", *In Proceedings of the Eight International Conference on Learning Analytics and Knowledge (LAK'18)*, 2018, (in-press), New York, NY, USA: ACM. doi.org/10.1145/3170358.3170369;

- C.015. Kovanovic Vitomir, **Joksimovic Srecko**, Mirriahi Negin, Blaine Ellen, Gasevic Dragan, Siemens George, and Dawson Shane: "Understand students' self-reflections through learning analytics", *In Proceedings of the Eight International Conference on Learning Analytics and Knowledge (LAK'18)*, 2018, (in-press), New York, NY, USA: ACM. doi:10.1145/3170358.3170374;
- C.014. Dowell Nia, Brooks Christopher, Kovanovic Vitomir, **Joksimovic Srecko**, and Gasevic Dragan: "The Changing patterns of MOOC discourse", *In Proceedings of the Fourth ACM Conference on Learning @ Scale (L@S'17)*, 2017, Pages 283-286, New York, NY, USA: ACM. doi:10.1145/3051457.3054005;
- C.013. Ruipérez Valiente Jose Antonio, **Joksimovic Srecko**, Kovanovic Vitomir, Gasevic Dragan, Muñoz-Merino Pedro J., and Delgado Kloos: "A Data-driven Method for the Detection of Close Submitters in Online Learning Environments", *Submitted for presentation at the 26th International World Wide Web Conference (WWW'17)*, April 3-7, 2017, Perth, Western Australia;
- C.012. Kovanovic Vitomir, **Joksimovic Srecko**, Katerinopoulos Philip, Michail Charalampos, Siemens George, and Gasevic Dragan: "Developing a MOOC experimentation platform: Insights from a user study", *In Proceedings of the Seventh International Conference on Learning Analytics and Knowledge (LAK 2017)*, 2017, Pages 1-5, New York, NY, USA: ACM. doi:10.1145/3027385.3027398;
- C.011. **Joksimovic Srecko**, Manataki Areti, Gasevic Dragan, Kovanovic Vitomir, and de Kereki Inés Friss: "Translating network position into performance: Importance of centrality in different network configurations", *In Proceedings of the Sixth International Conference on Learning Analytics and Knowledge (LAK 2016)*, 2016, Pages 314-323, New York, NY, USA: ACM (**nominated for the best paper award**) doi:10.1145/2883851.2883928;
- C.010. Kovanovic Vitomir, **Joksimovic Srecko**, Waters Zak, Gasevic Dragan, Kitto Kirsty, Hatala Marek, and Siemens George: "Towards automated content analysis of discussion transcripts: A cognitive presence case", *In Proceedings of the Sixth International Conference on Learning Analytics and Knowledge (LAK 2016)*, 2016, Pages 15-24, New York, NY, USA: ACM doi:10.1145/2883851.2883950;
- C.009. Beheshitha Sanam Shirazi, Hatala Marek, Gasevic Dragan and **Joksimovic Srecko**: "Do No Harm! Importance of Considering Individual Differences with Learning Analytics Visualizations", *In Proceedings of the Sixth International Conference on Learning Analytics and Knowledge (LAK 2016)*, 2016, Pages 54-63, New York, NY, USA: ACM doi:10.1145/2883851.2883904;
- C.009. Kovanovic Vitomir, **Joksimovic Srecko**, Gasevic Dragan, Owers James, Scott Anne-Marie, and Woodgate Amy: "Profiling MOOC course returners: How does student behavior change between two course enrollments?", *In Proceedings of the Third (2016) ACM Conference on Learning @ Scale*, 2016, Pages 269-272. New York, NY, USA: ACM. doi:10.1145/2876034.2893431;
- C.008. Kovanovic Vitomir, Gasevic Dragan, **Joksimovic Srecko**, Hatala Marek, and Siemens George: "MOOCs in the News: A European Perspective", *In Proceedings of the 2015 HOME conference*, Rome, Italy, 2015, Pages 36-48, Retrieved from <http://eadtu.eu/home/publications>;
- C.007. Dowell Nia, Skrypnyk Oleksandra, **Joksimovic Srecko**, Graesser, Arthur C., Dawson Shane, Gasevic Dragan, de Vries Pieter, Hennis Thieme, and Kovanovic Vitomir: "Modeling Learners' Social Centrality and Performance through Language and Discourse", *The 8th International Conference on Educational Data Mining, EDM 2015, 26-29 June, 2015 UNED, Madrid, Spain*;
- C.006. Dawson Shane, **Joksimovic Srecko**, Kovanovic Vitomir, Gasevic Dragan, and Siemens George: "Recognising learner autonomy: Lessons and reflections from a joint x/c MOOC", *In Proceedings of 2015 HERDSA conference*, Melbourne, Australia, 6-9 July, 2015, Available at: <http://herdsa-2015.p.asnevents.com.au/days/2015-07-08/abstract/22639> (**best paper award**);
- C.005. **Joksimovic Srecko**, Kovanovic Vitomir, Jovanovic Jelena, Zouaq Amal, Gasevic Dragan, and Hatala Marek: "What do cMOOC participants talk about in Social Media? A Topic Analysis of Discourse in a cMOOC", *In Proceedings of the 5th International Conference on Learning Analytics and Knowledge (LAK 2015)*, Poughkeepsie, NY, USA, 16-20 March 2015;
- C.004. **Joksimovic Srecko**, Dowell Nia, Skrypnyk Oleksandra, Kovanovic Vitomir, Gasevic Dragan, Dawson Shane, and Graesser, Arthur C.: "How do you connect? Analysis of Social Capital Accumulation in connectivist MOOCs", *In Proceedings of the 5th International Conference on Learning Analytics and Knowledge (LAK 2015)*, Poughkeepsie, NY, USA, 16-20 March 2015 (short paper);
- C.003. Kovanovic, Vitomir, Gasevic Dragan, Dawson Shane, **Joksimovic Srecko**, Baker Ryan, and Hatala Marek: "Penetrating the Black Box of Time-on-task Estimation", *In Proceedings of the 5th International Conference on Learning Analytics and Knowledge (LAK 2015)*, Poughkeepsie, NY, USA, 16-20 March 2015 (**the best paper award**);

- C.002. Dawson Shane, Gasevic Dragan, Siemens George, and **Joksimovic Srecko**: “Current State and Future Trends: a Citation Network Analysis of the Learning Analytics Field”, *In Proceedings of the 4th International Conference on Learning Analytics and Knowledge (LAK 2014)*, Indianapolis, IN, USA, 24-28 March 2014, p231-240 (**nominated for the best paper award**), doi:10.1145/2567574.2567585;
- C.001. **Joksimovic Srecko**, Jovanovic Jelena, Gasevic Dragan, Zouaq Amal, Jeremic Zoran: “An Empirical Evaluation of Ontology-based Semantic Annotators”, *In Proceedings of the 7th International Conference on Knowledge Capture (KCAP 2013)*, Banff, Canada, 23-26 June 2013, p109-112, doi:10.1145/2479832.2479855.

Book chapters

- BC.002.S Kovanovic Vitomir, **Joksimovic Srecko**, Gasevic Dragan, Hatala Marek, and Siemens George: “Content analytics: the definition, scope, and an overview of published research”, *In C. Lang & G. Siemens (Eds.), Handbook of Learning Analytcs* (submitted);
- BC.001.S Zouaq Amal, Jovanovic Jelena, **Joksimovic Srecko**, and Gasevic Dragan: “Linked Data for Learning Analytics: Potentials and Challenges”, *In C. Lang & G. Siemens (Eds.), Handbook of Learning Analytcs* (submitted).

Technical Reports

- R.003. **Joksimovic Srecko**, Kovanovic Vitomir, Skrypnyk Oleksandra, Gasevic Dragan, Dawson Shane and Siemens George: “The history and state of online learning”. In G. Siemens, D. Gašević, & S. Dawson (Eds.), *Preparing for the digital university: a review of the history and current state of distance, blended, and online learning*. Athabasca University, 2015, Retrieved from <http://linkresearchlab.org/PreparingDigitalUniversity.pdf>;
- R.002. Kovanovic Vitomir, **Joksimovic Srecko**, Skrypnyk Oleksandra, Gasevic Dragan, Dawson Shane and Siemens George: “The history and state of distance learning”. In G. Siemens, D. Gašević, & S. Dawson (Eds.), *Preparing for the digital university: a review of the history and current state of distance, blended, and online learning*. Athabasca University, 2015, Retrieved from <http://linkresearchlab.org/PreparingDigitalUniversity.pdf>;
- R.001. Skrypnyk Oleksandra, **Joksimovic Srecko**, Kovanovic Vitomir, Dawson Shane, Gasevic Dragan, and Siemens George: “The history and state of blended learning”. In G. Siemens, D. Gašević, & S. Dawson (Eds.), *Preparing for the digital university: a review of the history and current state of distance, blended, and online learning*. Athabasca University, 2015, Retrieved from <http://linkresearchlab.org/PreparingDigitalUniversity.pdf>.

Workshop papers

- W.004. Wang Yuan, San Pedro Maria Offelia, **Joksimovic Srecko**, McKinniss Tamera, Way Jason: “Workshop on Online Learning Non-Cognitive Assessments at Scale”, *In Proceedings of the Eight International Conference on Learning Analytics and Knowledge (LAK'18)*;
- W.003. Kovanovic Vitomir, **Joksimovic Srecko**, Gasevic Dragan, and Hatala Marek: “Automated Cognitive Presence Detection in Online Discussion Transcripts”, *In Proceedings of the Learning Analytics & Machine Learning Workshop, held at the 4th International Conference on Learning Analytics and Knowledge (LAK 2014)*, Indianapolis, IN, USA, 24-28 March 2014, published online (4 pages) http://ceur-ws.org/Vol-1137/LA_machinelearning_submission_1.pdf;
- W.002. Kovanovic Vitomir, **Joksimovic Srecko**, Gasevic Dragan, and Hatala Marek: “What is the source of social capital? The association between social network position and social presence in communities of inquiry”, *In Proceedings of the 1st International Workshop on: Graph-Based Educational Datamining (G-EDM), held at the 7th International Conference on Educational Datamining*, London, UK, 4-7 July 2014, p21-28, published online http://ceur-ws.org/Vol-1183/gedm2014_proceedings.pdf;
- W.001. Zouaq Amal, **Joksimovic Srecko**, and Gasevic Dragan: “Applying ontology learning and graph measures to analyze learning analytics publications”, *In Proceedings of the 1st LAK Data Challenge, held at the 3rd International Conference on Learning Analytics and Knowledge (LAK 2013)*, Leuven, Belgium, 8-12 April 2013 (**3rd Prize**), published online (4 pages) http://ceur-ws.org/Vol-974/lakdatachallenge2013_08.pdf.

Seminars & Talks

- P.007. **Joksimovic Srecko**: “Networked learning analytics: Studying Learning in Non-formal Digital Educational Settings”, University of Pennsylvania, November 16, 2016;

- P.006. **Joksimovic Srecko**, Kovanovic Vitomir, and Gasevic Dragan: “Effects of the network context on the association between social centrality and academic performance”, Presented at the Social Network Analysis in Scotland Group seminar series, University of Glasgow, May 31, 2015;
- P.005. Crosslin Matt, Dellinger Justin T., Kovanovic Vitomir, and **Joksimovic Srecko**: “Customizable Modalities for Individualized Learning: Examining Patterns of Engagement in Dual-Layer MOOCs”, *Digital Learning Research Network 2015 Conference*, Stanford University, Stanford, CA. October 16-17, 2015;
- P.004. **Joksimovic Srecko** and Gasevic Dragan: “Networked Learning Analytics: Studying the Association between Learner Generated Discourse and Learning”, *Dealing with Data Conference*, The University of Edinburgh, Edinburgh, UK, August 31, 2015;
- P.003. Kovanovic Vitomir, **Joksimovic Srecko**, and Gasevic Dragan: “Automated System for Cognitive Presence Coding”, *FutureLearn Academic Network Conference*, The Nottingham Trent University, Nottingham, UK, June 24, 2015;
- P.002. **Joksimovic Srecko**, Veeramachaneni Kalyan, and Gasevic Dragan: “MOOCdb: Developing Data Standards for MOOCs”, *FutureLearn Academic Network Conference*, The Open University UK, Milton Keynes, UK, June 15, 2015;
- P.001. **Joksimovic Srecko**, Gasevic Dragan, and Kovanovic Vitomir: “Factors shaping learners’ interactions in networked learning context”, *The Institute for Adaptive and Neural Computation (ANC) workshop series*, The University of Edinburgh, Edinburgh, UK, May 20, 2015.

Technical skills

Programming languages	Java, Python (NymPy, SciPy, Pandas, Scikit-learn), PHP, Shell scripting	IDEs	Eclipse, Visual Studio, NetBeans
Web technologies	JavaScript, Web Services, WCF RIA	Scientific computing	R, \LaTeX , Octave
Statistics	Parametric and non-parametric tests, multivariate analysis, multilevel liner models, exploratory factor analysis, SEM	Research method/design	Quantitative content analysis, Quasi-experiment, Survey, Meta-analysis
Statistical software	R-Studio, SPSS, JMP	Computer science	Machine learning, Natural Language Processing, Data Mining, Social Network Analysis
(Interactive) Visualizations	GGPlot, D3.js, JavaScript InfoVis Toolkit	Databases	SQL (MS SQL, MySQL, PostgreSQL), NoSQL (MongoDB, Cassandra)

Conference, Tutorials and Workshop Organization

- Workshop organizer “*Social Network Analysis: Learning Analytics Perspectives*”, The Fifth Learning Analytics Summer institute (LASI’18), June 2018, Teachers College, Columbia University, New York, NY, USA.
- Workshop organizer “*Understanding and Analysing Networks: Concepts and Tools*”, Digital Learning Week at the University of South Australia, March 2016, The University of South Australia, Adelaide, Australia.
- Tutorial organizer Three-day tutorial “*Topic modeling*”, The Third Learning Analytics Summer institute (LASI’16), June 27-29, 2016, The University of Michigan, Ann Arbor, MI, USA,
 Half-day tutorial “*Topic modeling for learning analytics researchers*”, Pre-conference event of the 5th International Learning Analytics and Knowledge Conference (LAK’15), March 17, 2015, Marist College, Poughkeepsie, NY, USA,
 Half-day tutorial “*Introduction to data mining for educational researchers*”, The Second Learning Analytics Summer institute (LASI’14), June 30, 2014, Harvard University, MA, USA.
- Organizing Committee The 6th International Learning Analytics and Knowledge (LAK) Conference , April 25 – 29, 2016, Edinburgh, UK.
 The 1st International Conference on Wearable technologies, knowledge development, and learning (aWEAR’16), November 14–15, Stanford University, Stanford, California, US.
 Workshop on Online Learning Non-Cognitive Assessments at Scale, The Eight International Conference on Learning Analytics and Knowledge (LAK’18), March 2018, The University of Sydney, Sydney, Australia.
- Local Committee 17th IEEE International Enterprise Distributed Object Computing Conference, EDOC 2013.

- Program committee The 8th International Learning Analytics and Knowledge Conference (LAK 2018), March 5–9, 2018, Sydney, Australia,
 The 7th International Learning Analytics and Knowledge Conference (LAK 2017), March 13–17, 2017, Vancouver, Canada,
 The 3rd International Conference on Higher Education Advances (HEAd 2016), June 21–23, 2017, Valencia, Spain,
 The 2nd International Conference on Higher Education Advances (HEAd 2016), June 21–23, 2016, Valencia, Spain,
 The 1st International Conference on Higher Education Advances (HEAd 2015), June 24–26, 2015, Valencia, Spain,
 The 33rd International Conference on Innovation, Practice, and Research in the Use of Educational Technology in Tertiary Education (ASCILITE'16), November 28–30, 2016, The University of South Australia, Adelaide, Australia,
 Learning with MOOCs III 2016 (LWMOOCS'16), October 6–7, University of Pennsylvania, Philadelphia, Pennsylvania, US.
- External Reviewer The 6th International Conference on Educational Data Mining (EDM 2013),
 The 7th International Conference on Educational Data Mining (EDM 2014),
 The 8th International Conference on Educational Data Mining (EDM 2015),
 The 9th International Conference on Educational Data Mining (EDM 2016),
 Conference on Empirical Methods in Natural Language Processing (EMNLP 2014),
 10th European Conference on Technology Enhanced Learning (EC-TEL 2015),
 Learning with MOOCs Workshop II (LWMOOCS 2015),
 Learning with MOOCs III (LWMOOCS 2016),
 The 3rd Annual ACM Conference on Learning at Scale (L@S 2016),
 The 6th International Learning Analytics and Knowledge Conference (LAK 2016),
 The 7th International Learning Analytics and Knowledge Conference (LAK 2017),
 The 8th International Learning Analytics and Knowledge Conference (LAK 2018),
 The International Conference on Mobile, Hybrid, and On-line Learning (eLmL'2018).
- Journal Reviewer** Journal of Learning Analytics (JLA), The Society for Learning Analytics Research (SoLAR),
 Review of Educational Research, Sage Publications,
 The Internet and Higher Education, Elsevier B.V.,
 Communications of the ACM, ACM New York, NY, USA,
 Data, Nature Publishing Group,
 IEEE Transactions on Learning Technologies (TLT), IEEE Computer Society and the IEEE Education Society,
 Journal of Computing in Higher Education, Springer,
 Computers in Human Behavior, Elsevier B.V.,
 Handbook of Learning Analytics & Educational Data Mining (HLAEDM 2016).

Research Projects

- Sep 2016 - **Personalized workplace learning**, *Boeing-NASA and Microsoft collaboration*.
 Collaboration with Boeing-NASA aimed at understanding the utility of professional degree programs that reach across boundaries of residential, corporate, and open online education. My work focuses on examining modern social networking techniques for analyzing and modeling social learner dynamics and mapping of on-line course leveraging knowledge networks.
- Aug 2016 - Mar 2017 **Learning Design and Assessment for Social Learning Spaces**, *NSF funded project*.
 This project was a part of the collaborative research efforts between the Carnegie Mellon University and the University of Texas at Arlington that aimed at leveraging large scale data for the purpose of automating the identification of design principles that would allow for constructing efficient learning and work environments. My work was primarily focused on developing conceptual learning design and assessment model for social learning spaces, such as MOOC platforms or social media.

- Aug 2015 - Aug 2016 **Adaptive Learning**, *Intel funded project*.
This project was led by the Learning Innovation and Networked Knowledge (LINK) Research Lab at University of Texas Arlington, and assumed work in the domains of adaptive learning and machine learning, whereas my role was twofold. First, I was involved in studying learning processes, analyzing student trace data obtained from an Intel educational platform (K-12 settings), in order to redefine indicators of student progress. Secondly, I also lead a collaborative project that aims at investigating different approaches to creating learner profiles in online learning settings (with respect to the self-regulated learning constructs), and how those profiles have been extracted (i.e., what algorithms are applied) used to build personalized learning platforms.
- Jun 2013 - Dec 2014 **Tools and Methods to Help Learners Self-Regulate Learning and Increase Learning Success**, *SSHRC Insight grant*.
The project aimed at extending, applying, and empirically validating new methods of learning analytics that use intensively sampled, fine-grained, temporally ordered data about learning activities to model learning, self-regulated learning (SRL), and motivation as dynamic processes. My contribution was primarily framed around developing methods for automated provision of formative feedback on student learning.
- Oct 2012 - Mar 2013 **Analytics for Social Learning Environments**, *NSERC Engage grant*.
This is industrial collaborative research project with Desire2Learn, leading vendor in the technology enhanced learning market. My work was focused on development of novel analytical approaches for assessing learning quality in social learning environments and concept comprehension in social learning.

Evidence of Teaching Performance

- Apr 2017 - Jun 2017 **Tutor**, *University of Edinburgh*, United Kingdom.
Challenges in Statistics.
- 2014 - 2015 **Teaching Assistant**, *Simon Fraser University*, Canada.
Spring 2014 – IAT 352 Internet Computing Technologies,
Fall 2014 – IAT 351 Advanced Human-Computer Interaction,
Spring 2015 – IAT 452 Developing Design Tools.

Course Development Experience

- Spring 2019 **“Data Structures”**, *The University of South Australia, Adelaide, Australia*.
 - Development of course materials for the second year fully online ten-week course in Data Structures.
- Summer 2018 **“Cluster Analysis (MOOC)”**, *The University of Texas, Arlington, United States*.
 - Development of course materials for the three-week massive edX open online course which is a part of University of Texas, Arlington MicroMasters in Learning Analytics program - www.edx.org/course/cluster-analysis-utarlingtonx-link-la-cax.

Student Advising

Current Students

- Sep 2017 - May 2018 **Titus Skrebe (Undergraduate honors project)**, *“Mining GitHub to detect factors that predict projects with vibrant communities.”*, School of Informatics, The University of Edinburgh.
- Sep 2017 - May 2018 **Adrian Christea (Undergraduate honors project)**, *“Mining Reddit to identify factors that describe prominent links between different communities.”*, School of Informatics, The University of Edinburgh.
- Sep 2017 - May 2018 **Tom Lutzeyer (Undergraduate honors project)**, *“Mining StackOverflow to identify collaboration patterns and user reputation.”*, School of Informatics, The University of Edinburgh.

Past Students

- Jun 2017 - Aug 2017 **Silvia Sanroma Martorell (Master student)**, *Thesis: “Mining Stack overflow to identify collaboration patterns and user reputation.”*, School of Informatics, The University of Edinburgh.
- Jun 2017 - Aug 2017 **Marko Vidoni (Master student)**, *Thesis: “Mining GitHub to detect factors that predict projects with vibrant communities.”*, School of Informatics, The University of Edinburgh.
- Jun 2017 - Aug 2017 **Jialun Wu (Master student)**, *Thesis: “Mining Reddit to identify factors that describe prominent links between different communities.”*, School of Informatics, The University of Edinburgh.
- Sep 2016 - May 2017 **Asseem Narang (Undergraduate honors project)**, *“Real-time Analytics for Massive Open Online Courses”*, School of Informatics, The University of Edinburgh.

- Jun 2016 - Aug 2016 **Ogechi Onuoha (Master student)**, *Thesis: "Real-time Analytics for Massive Open Online Courses"*, School of Informatics, The University of Edinburgh.
- Jun 2016 - Aug 2016 **Michail Charalampos (Master student)**, *Thesis: "AB testing with Massive Open Online Courses"*, School of Informatics, The University of Edinburgh.
- Jun 2016 - Aug 2016 **Filippos Katerinopoulos (Master student)**, *Thesis: "AB testing with Massive Open Online Courses"*, School of Informatics, The University of Edinburgh.
- Jun 2016 - Jul 2016 **Ellen Blaine (Visiting undergraduate student from Stanford University)**, *Summer research project: "Automation of a coding scheme for content analysis of student self-reflection"*, 2016, School of Informatics, The University of Edinburgh.