

Kostiantyn Kucher

Curriculum Vitae, August 2020

Contact Information

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Education

- PhD degree in Computer and Information Science from Linnaeus University, Sweden (September 2013 – April 2019)
 - Dissertation title: Sentiment and stance visualization of textual data for social media
 - Supervisor: Prof. Dr. Andreas Kerren (Linnaeus University)
 - Co-supervisors: Prof. Dr. Carita Paradis (Lund University) and Dr. Magnus Sahlgren (RISE SICS)
 - Opponent (external reviewer): Assoc. Prof. Dr. Ross Maciejewski (Arizona State University, USA)
 - Examining committee: Prof. Dr.-Ir. Jarke van Wijk (Eindhoven University of Technology, the Netherlands), Prof. Dr.-Ing. Jörn Kohlhammer (Technische Universität Darmstadt, Germany), and Prof. Dr. Gerik Scheuermann (Leipzig University, Germany)
- Master's degree with honors in Computer Science (Information Control Systems and Technologies) from Odessa National Polytechnic University, Ukraine (2010–2012)
- Bachelor's degree with honors in Computer Science from Odessa National Polytechnic University, Ukraine (2006–2010)
- Secondary education diploma with honors from Odessa Gymnasium No. 5, Ukraine (1996–2006)

Current Employment

- Associate Senior Lecturer at the Department of Computer Science and Media Technology, Linnaeus University, Sweden (January 2020 – present)

Previous Employments

- Research Assistant at the Department of Computer Science and Media Technology, Linnaeus University, Sweden (December 2018 – December 2019)
- PhD Student in Computer and Information Science with a specialization in Information Visualization and Visual Analytics at the Department of Computer Science and Media Technology, Linnaeus University, Sweden (September 2013 – November 2018)
- Research/Teaching Assistant (*Universitetsadjunkt*) at the Department of Computer Science, Linnaeus University, Sweden (January 2013 – August 2013)

Research Interests

- Text visualization and visual text analytics (especially for sentiment and stance visualization tasks)
- Temporal data visualization (especially for temporal text data)
- Further integration of visual analytics approaches with computational models (especially for natural language processing and text mining tasks) as well as explainable AI
- Domain applications of information visualization and visual analytics, especially in digital humanities and information science

Publications

Monographs

- [M1] **Kostiantyn Kucher**. *Sentiment and Stance Visualization of Textual Data for Social Media*. PhD thesis, Linnaeus University, April 2019. Linnaeus University Dissertations No 347/2019, Linnaeus University Press. URL: <http://urn.kb.se/resolve?urn=urn:nbn:se:lnu:diva-81081>.

Peer-Reviewed Journal Articles

- [J8] Angelos Chatzimparmpas, Rafael M. Martins, **Kostiantyn Kucher**, and Andreas Kerren. StackGenVis: Alignment of data, algorithms, and models for stacking ensemble learning using performance metrics. *IEEE Transactions on Visualization and Computer Graphics*, 2021. Proceedings of IEEE VAST '20. To appear.
- [J7] **Kostiantyn Kucher**, Rafael M. Martins, Carita Paradis, and Andreas Kerren. StanceVis Prime: Visual analysis of sentiment and stance in social media texts. *Journal of Visualization*, 2020. doi:10.1007/s12650-020-00684-5.
- [J6] Angelos Chatzimparmpas, Rafael M. Martins, Ilir Jusufi, **Kostiantyn Kucher**, Fabrice Rossi, and Andreas Kerren. The state of the art in enhancing trust in machine learning models with the use of visualizations. *Computer Graphics Forum*, 39(3):713–756, June 2020. doi:10.1111/cgf.14034.
- [J5] **Kostiantyn Kucher**, Carita Paradis, and Andreas Kerren. The state of the art in sentiment visualization. *Computer Graphics Forum*, 37(1):71–96, February 2018. doi:10.1111/cgf.13217.
- [J4] Andreas Kerren, **Kostiantyn Kucher**, Yuan-Fang Li, and Falk Schreiber. BioVis Explorer: A visual guide for biological data visualization techniques. *PLOS ONE*, 12(11), November 2017. doi:10.1371/journal.pone.0187341.
- [J3] **Kostiantyn Kucher**, Carita Paradis, Magnus Sahlgren, and Andreas Kerren. Active learning and visual analytics for stance classification with ALVA. *ACM Transactions on Interactive Intelligent Systems*, 7(3):14:1–14:31, October 2017. doi:10.1145/3132169.
- [J2] Vasiliki Simaki, Carita Paradis, Maria Skeppstedt, Magnus Sahlgren, **Kostiantyn Kucher**, and Andreas Kerren. Annotating speaker stance in discourse: The Brexit Blog Corpus. *Corpus Linguistics and Linguistic Theory*, 2017. doi:10.1515/c11t-2016-0060.
- [J1] **Kostiantyn Kucher**, Teri Schamp-Bjerede, Andreas Kerren, Carita Paradis, and Magnus Sahlgren. Visual analysis of online social media to open up the investigation of stance phenomena. *Information Visualization*, 15(2):93–116, April 2016. doi:10.1177/1473871615575079.

Peer-Reviewed Conference Papers

- [C7] Maria Skeppstedt, Magnus Ahltop, **Kostiantyn Kucher**, Andreas Kerren, Rafal Rzepka, and Kenji Araki. Topic modelling applied to a second language: A language adaption and tool evaluation study. In *Selected Papers from the CLARIN Annual Conference 2019*, volume 172 of *Linköping Electronic Conference Proceedings*, pages 145–156. Linköping University Electronic Press, 2020. doi : 10.3384/ecp2020172017.
- [C6] **Kostiantyn Kucher**, Rafael M. Martins, and Andreas Kerren. Analysis of VINCI 2009–2017 proceedings. In *Proceedings of the 11th International Symposium on Visual Information Communication and Interaction*, VINCI '18, pages 97–101. ACM, 2018. doi : 10.1145/3231622.3231641.
- [C5] Maria Skeppstedt, **Kostiantyn Kucher**, Manfred Stede, and Andreas Kerren. Topics2Themes: Computer-assisted argument extraction by visual analysis of important topics. In *Proceedings of the 3rd Workshop on Visualization as Added Value in the Development, Use and Evaluation of Language Resources at LREC '18*, VisLR III. ELRA, 2018. URL: http://lrec-conf.org/workshops/lrec2018/w16/summaries/2_W16.html.
- [C4] **Kostiantyn Kucher**, Carita Paradis, and Andreas Kerren. DoSVis: Document stance visualization. In *Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP '18) — Volume 3: IVAPP, IVAPP '18*, pages 168–175. SciTePress, 2018. doi : 10.5220/0006539101680175.
- [C3] Rafael M. Martins, Vasiliki Simaki, **Kostiantyn Kucher**, Carita Paradis, and Andreas Kerren. StanceXplore: Visualization for the interactive exploration of stance in social media. In *Proceedings of the 2nd Workshop on Visualization for the Digital Humanities*, VIS4DH '17, 2017. URL: <http://vis4dh.dbvis.de/papers/2017/>.
- [C2] **Kostiantyn Kucher**, Daniel Cernea, and Andreas Kerren. Visualizing excitement of individuals and groups. In *Proceedings of the ACM IUI 2016 Workshop on Emotion and Visualization*, EmoVis 2016, pages 15–22. Linköping University Electronic Press, 2016. doi : 10.3384/ecp10303.
- [C1] **Kostiantyn Kucher** and Andreas Kerren. Text visualization techniques: Taxonomy, visual survey, and community insights. In *Proceedings of the IEEE Pacific Visualization Symposium*, PacificVis '15, pages 117–121. IEEE, 2015. doi : 10.1109/PACIFICVIS.2015.7156366.

Peer-Reviewed Poster Papers and Extended Abstracts

- [P7] **Kostiantyn Kucher** and Andreas Kerren. Text visualization revisited: The state of the field in 2019. In *Poster Abstracts of the EG/VGTC Conference on Visualization*, EuroVis '19, pages 29–31. The Eurographics Association, 2019. doi : 10.2312/eurp.20191138.
- [P6] **Kostiantyn Kucher**, Maria Skeppstedt, and Andreas Kerren. Application of interactive computer-assisted argument extraction to opinionated social media texts. In *Poster Abstracts of the 11th International Symposium on Visual Information Communication and Interaction*, VINCI '18, pages 102–103. ACM, 2018. doi : 10.1145/3231622.3232505.
- [P5] **Kostiantyn Kucher**, Carita Paradis, and Andreas Kerren. Visual analysis of sentiment and stance in social media texts. In *Poster Abstracts of the EG/VGTC Conference on Visualization*, EuroVis '18, pages 49–51. The Eurographics Association, 2018. doi : 10.2312/eurp.20181127. **Best poster award.**
- [E2] Maria Skeppstedt, **Kostiantyn Kucher**, Carita Paradis, and Andreas Kerren. Language processing components of the StaViCTA project. In *Proceedings of the Workshop on Logic and Algorithms in Computational Linguistics*, LACompLing '17, pages 137–138. Stockholm University, 2017.
- [P4] Andreas Kerren, **Kostiantyn Kucher**, Yuan-Fang Li, and Falk Schreiber. MDS-based visual survey of biological data visualization techniques. In *Poster Abstracts of the EG/VGTC Conference on Visualization*, EuroVis '17, pages 85–87. The Eurographics Association, 2017. doi : 10.2312/eurp.20171175.

- [E1] **Kostiantyn Kucher**, Andreas Kerren, Carita Paradis, and Magnus Sahlgren. Methodology and applications of visual stance analysis: An interactive demo. In *Abstracts of the International Symposium on Digital Humanities*, pages 56–57. Linnaeus University, 2016.
- [P3] **Kostiantyn Kucher**, Andreas Kerren, Carita Paradis, and Magnus Sahlgren. Visual analysis of text annotations for stance classification with ALVA. In *Poster Abstracts of the EG/VGTC Conference on Visualization*, EuroVis '16, pages 49–51. The Eurographics Association, 2016. doi:10.2312/eurp.20161139.
- [P2] **Kostiantyn Kucher** and Andreas Kerren. Text visualization browser: A visual survey of text visualization techniques. In *Poster Abstracts of the IEEE Conference on Information Visualization*, InfoVis '14, 2014.
- [P1] **Kostiantyn Kucher**, Andreas Kerren, Carita Paradis, and Magnus Sahlgren. Visual analysis of stance markers in online social media. In *Poster Abstracts of the IEEE Conference on Visual Analytics Science and Technology*, VAST '14, pages 259–260. IEEE, 2014. doi:10.1109/VAST.2014.7042519.

Other/Miscellaneous Publications

- [O9] Teri Schamp-Bjerede, Carita Paradis, **Kostiantyn Kucher**, Andreas Kerren, and Magnus Sahlgren. New perspectives on gathering, vetting and employing big data from online social media: An interdisciplinary approach. In *Abstracts of the 36th International Computer Archive of Modern and Medieval English Conference*, ICAME 36, pages 153–155, 2015.
- [O8] Teri Schamp-Bjerede, Carita Paradis, Andreas Kerren, Magnus Sahlgren, **Kostiantyn Kucher**, and Afshin Rahimi. Hedges and tweets: Certainty and uncertainty in epistemic markers in microblog feeds. In *Abstracts of the 47th Annual Meeting of the Societas Linguistica Europaea*, SLE '14, page 199, 2014.
- [O7] Teri Schamp-Bjerede, Carita Paradis, **Kostiantyn Kucher**, Andreas Kerren, and Magnus Sahlgren. Turning face: Emoticons as reinforcers/attenuators. In *Poster Abstracts of the International Conference on Conceptual Structure, Discourse, and Language*, CSDL '14, 2014.
- [O6] Teri Schamp-Bjerede, Carita Paradis, **Kostiantyn Kucher**, Andreas Kerren, and Magnus Sahlgren. The signifier, signified & stance: A study on the happy/sad emoticon as emotionizers. In *Poster Abstracts of The First Conference of the International Association for Cognitive Semiotics*, IACS '14, page 219. Lund University, 2014.
- [O5] **Kostiantyn Kucher** and Danny Weyns. A self-adaptive software system to support elderly care. In *Proceedings of the International Conference of Students and Young Researchers “Modern Information Technologies”*, MIT '13. Odessa National Polytechnic University, 2013.
- [O4] **Kostiantyn Kucher** and Svitlana Antoshchuk. Structured documents layout identification using user-defined model. In *Proceedings of the International Conference of Students and Young Researchers “Modern Information Technologies”*, MIT '12. Odessa National Polytechnic University, 2012. In Ukrainian.
- [O3] **Kostiantyn Kucher** and Svitlana Antoshchuk. Usage of radial basis function network for handwritten digits recognition. In *Proceedings of the International Conference of Students and Young Researchers “Modern Information Technologies”*, MIT '11. Odessa National Polytechnic University, 2011. In Ukrainian.
- [O2] **Kostiantyn Kucher** and Svitlana Antoshchuk. Geometrical image distortions compensation for forms processing. In *Proceedings of the Conference of ONPU Young Researchers “Modern Information Technologies and Telecommunication Networks”*, MITTN '10. Odessa National Polytechnic University, 2010. In Ukrainian.
- [O1] Svitlana Antoshchuk, Natalia Krysenko, Illia Krysenko, and **Kostiantyn Kucher**. Feature-based method for recognition of structured documents with handwritten contents using a convolutional neural network. *Electrical Machine-Building and Electrical Equipment*, (72), 2009. In Ukrainian.

Distinctions and Awards

- Best poster award at EuroVis '18 [P5]. URL: <http://eurovis2018.org/>

Other Academic Qualifications

Academic Community Assignments

- IPC member for EuroVis '20 Posters
- Proceedings chair for VINCI '16 and VINCI '18
- Poster fast forward session chair at VINCI '18
- Session chair at IVAPP '18

Referee Assignments

- Journals
 - IEEE TVCG (1 article in 2020)
 - ACM TiiS (1 article in 2020)
 - FITEE (1 article in 2019)
 - MDPI Informatics (1 article in 2019)
- Conferences
 - IEEE VIS '20 Short Papers (1 paper)
 - IEEE VAST '20 (3 papers)
 - EuroVis '20 Posters (2 posters as an IPC member)
 - ICWSM '20 Posters & Demos (1 demo paper)
 - IEEE PacificVis '20 (1 paper)
 - IEEE VIS '19 Short Papers (1 paper)
 - IEEE VAST '19 (2 papers)
 - IEEE PacificVis '19 (1 paper)
 - IEEE VAST '18 (2 papers)
 - BDVA '18 (1 paper)
 - IVAPP '18 (1 paper)
 - ICCCT '17 (1 paper)
 - IVAPP '16 (2 papers)
 - GD '15 (1 paper)
 - IVAPP '14 (1 paper)

Participation in Conferences and Workshops

- EuroVis '20 conference (online), May 2020, assistance in article presentation [J6]
- Big Data Conference at Linnaeus University in Växjö, December 2019, attendance
- EuroVis '19 conference in Porto, June 2019, poster presentation [P7]
- IEEE VIS '18 conference in Berlin, October 2018, attendance
- VINCI '18 conference in Växjö, August 2018, short paper + poster presentation [C6, P6]

- EuroVis '18 conference in Brno, June 2018, poster presentation [P5]
- ACM IUI '18 conference in Tokyo, March 2018, invited article presentation [J3]
- IVAPP '18 conference in Funchal–Madeira, January 2018, short paper presentation [C4]
- Big Data Conference at Linnaeus University in Växjö, December 2017, invited showcase presentation [J5]
- EuroVis '17 conference in Barcelona, June 2017, invited article + poster presentation [J5, P4]
- International Symposium on Digital Humanities in Växjö, November 2016, interactive presentation [E1]
- EuroVis '16 conference in Groningen, June 2016, poster presentation [P3]
- SweDS '15 workshop in Karlskrona, September 2015, presentation
- ICAME 36 conference in Trier, May 2015, presentation [O9]
- IEEE PacificVis '15 conference in Hangzhou, April 2015, short paper presentation [C1]
- IEEE VIS '14 conference in Paris, November 2014, two poster presentations [P1, P2]
- SIGRAD '14 conference in Göteborg, June 2014, presentation
- MIT '13 conference in Odessa, April 2013, presentation [O5]
- SIGRAD '12 conference in Växjö, November 2012, attendance
- MIT '12 conference in Odessa, April 2012, presentation [O4]
- MIT '11 conference in Odessa, May 2011, presentation [O3]
- MITTN '10 conference in Odessa, May 2010, presentation [O2]

Conference Presentations and Seminar Talks

- Analysis of VINCI 2009–2017 proceedings. Conference presentation at VINCI '18, Växjö, 15.08.2018. [C6]
- Active learning and visual analytics for stance classification with ALVA. Invited conference presentation at ACM IUI '18, Tokyo, 09.03.2018. [J3]
- DoSVIS: Document stance visualization. Conference presentation at IVAPP '18, Funchal-Madeira, 29.01.2018. [C4]
- The state of the art in sentiment visualization. Conference presentation at the showcase session of the Big Data Conference at Linnaeus University, Växjö, 01.12.2017. [J5]
- The state of the art in sentiment visualization. Invited conference presentation at EuroVis '17, Barcelona, 14.06.2017. [J5]
- Methodology and applications of visual stance analysis: An interactive demo. Interactive presentation at the International Symposium on Digital Humanities, Växjö, 07.11.2016. [E1]
- Toward social media stance analysis by means of visual analytics. Workshop presentation at the 3rd Swedish National Workshop on Data Science (SweDS), Karlskrona, 30.09.2015.
- New perspectives on gathering, vetting and employing Big Data from online social media: An interdisciplinary approach. Conference presentation (with Teri Schamp-Bjerede) at ICAME 36, Trier, 30.05.2015. [O9]
- Text visualization techniques: Taxonomy, visual survey, and community insights. Conference presentation at IEEE PacificVis '15, Hangzhou, 15.04.2015. [C1]

- An interdisciplinary approach to gathering, vetting and employing Big Data from online social media. Talk (with Teri Schamp-Bjerede) at the Centre for Languages and Literature seminar, Lund University, 08.04.2015.
- From sentiment to stance: Bootstrapping the visual analytics approach for social media stance analysis. Talk at CS Research Seminar, Linnaeus University, Växjö, 12.12.2014.
- Multi-scale trend visualization of long-term temperature data sets. Conference presentation (on behalf of Andreas Kerren) at SIGRAD '14, Göteborg, 13.06.2014.
- An introduction to advances in the description and explanation of stance in discourse using visual and computational text analytics. Talk (with Teri Schamp-Bjerede and Afshin Rahimi) at the Centre for Languages and Literature seminar, Lund University, 07.05.2014.
- A self-adaptive software system to support elderly care. Conference presentation at MIT '13, Odessa, 26.04.2013. [O5]
- Structured documents layout identification using user-defined model. Conference presentation (in Ukrainian) at MIT '12, Odessa, 26.04.2012. [O4]
- Usage of radial basis function network for handwritten digits recognition. Conference presentation (in Ukrainian) at MIT '11, Odessa, 12.05.2011. [O3]
- Geometrical image distortions compensation for forms processing. Conference presentation (in Ukrainian) at MITTN '10, Odessa, 16.05.2010. [O2]

Invited Talks

- Text, sentiment, and stance visualization for social media data. Invited talk at Fojo Media Institute, Linnaeus University, Kalmar, 19.09.2019.

Professional Organizations Membership

- Institute of Electrical and Electronics Engineers (IEEE)
 - Affiliate (January 2020 – present)
 - Member (January 2019 – December 2019)
 - Student member (March 2014 – December 2018)
- IEEE Computer Society
 - Member (January 2015 – present)
- IEEE Computer Society Technical Committee on Visualization and Graphics (VGTC)
 - Member (January 2015 – present)
- Association for Computing Machinery (ACM)
 - Professional member (July 2018 – present)
 - Student member (July 2014 – June 2018)
- Swedish Association of University Teachers and Researchers (SULF)
 - Member (January 2019 – present)
 - Doctoral student member (October 2017 – December 2018)

Pedagogical Qualifications

Pedagogical Training

- Compulsory Higher Education Teacher Training course (15 hp) at Linnaeus University (2017; taken as part of PhD studies)
- Higher School Pedagogy and Intellectual Property course (72 h) at Odessa National Polytechnic University (2011; taken as part of Master's studies)
- Higher School Teaching Methodology and Bologna Process course (72 h) at Odessa National Polytechnic University (2011; taken as part of Master's studies)

Teaching Experience

Courses at Linnaeus University:

- 2020, autumn term:
 - 1DV512 Operating Systems (course coordinator, examiner)
 - 4DH410 Digital Humanities Research Methods (guest lecturer)
 - 4DV507 Code Transformation and Interpretation (course coordinator)
 - 4DV807 Project in Visualization and Data Analysis (lecturer)
- 2020, spring term:
 - 1DV031 System Administration I (lecturer)
 - 1DV437 Introduction to Game Programming (course coordinator, examiner)
 - 1ME326 Web Technology 6 (guest lecturer)
 - 4DH410 Digital Humanities Research Methods (guest lecturer)
 - 4DV800 Information Visualization (guest lecturer)
 - 4DV801 Applied Information Visualization (guest lecturer)
- 2019, autumn term:
 - 1DV512 Operating Systems (teaching assistant)
 - 4DV504 Selected Topics in Computer Science (self-study project supervisor)
 - 4DV507 Code Transformation and Interpretation (lecturer)
 - 4DV802 Graph Drawing (teaching assistant)
- 2019, spring term:
 - 1DV437 Introduction to Game Programming (lecturer)
 - 1DV517 Language and Logic (teaching assistant)
 - 1DV534 Object Oriented Programming with C++ (lecturer)
 - 4DV800 Information Visualization (teaching assistant)
 - 4DV801 Applied Information Visualization (teaching assistant)
- 2018, autumn term:
 - 4DV506 Compiler Construction I (teaching assistant)
 - 4DV802 Graph Drawing (teaching assistant)
- 2018, spring term:

- 1DV437 Introduction to Game Programming (lecturer)
- 4DV800 Information Visualization (teaching assistant)
- 4DV801 Applied Information Visualization (teaching assistant)
- 2017, autumn term:
 - 4DV506 Compiler Construction I (teaching assistant)
 - 4DV802 Graph Drawing (teaching assistant)
- 2017, spring term:
 - 4DV800 Information Visualization (teaching assistant)
 - 4DV801 Applied Information Visualization (teaching assistant)
- 2016, autumn term:
 - 2DV606 Android for Java Programmers (teaching assistant)
 - 4DV802 Graph Drawing (teaching assistant)
- 2016, spring term:
 - 2DV606 Android for Java Programmers (teaching assistant)
- 2015, autumn term:
 - 2DV606 Android for Java Programmers (teaching assistant)
- 2014, autumn term:
 - 1DV013 Database Theory (teaching assistant)
 - 2DV106 Android for Java Programmers (teaching assistant)
- 2013, autumn term:
 - 1DV013 Database Theory (teaching assistant)
 - 2DV106 Android for Java Programmers (teaching assistant)
- 2013, spring term:
 - 1DV016 Algorithms and Advanced Data Structures (teaching assistant)
 - 1DV201 Computer Networks—An Introduction (teaching assistant)
 - 4DV105 Applied Program Analysis (teaching assistant)
- 2012, autumn term:
 - 2DV106 Android for Java Programmers (teaching assistant)
 - 4DV006 Compiler Construction I (teaching assistant)
- 2011, autumn term:
 - 4DV006 Compiler Construction I (teaching assistant)

Supervision Experience

- Peter Johansson. Dynamic co-authorship network analysis with applications to survey metadata. Bachelor's thesis, 15 hp, co-supervised with Prof. Dr. Andreas Kerren. Linnaeus University, June 2020. URL: <http://urn.kb.se/resolve?urn=urn:nbn:se:lnu:diva-96794>
- Gustav Andersson. Translation of CAN bus XML messages to C source code. Bachelor's thesis, 15 hp, external co-supervisor: Fredrik Björn (Danfoss Power Solutions AB). Linnaeus University, June 2020. URL: <http://urn.kb.se/resolve?urn=urn:nbn:se:lnu:diva-96424>
- Imran Shokat. Computational analyses of scientific publications using raw and manually curated data with applications to text visualization. Master's thesis, 30 hp, co-supervised with Prof. Dr. Andreas Kerren. Linnaeus University, November 2018. URL: <http://urn.kb.se/resolve?urn=urn:nbn:se:lnu:diva-78995>

Examining Committee Experience

- **Reviewer for:** Helena Tévar Hernández. Evolution of software documentation over time: An analysis of the quality of software documentation. Bachelor's thesis, 15 hp, supervised by Dr. Francis Palma. Linnaeus University, August 2020.
- **Reviewer for:** Alain Perkaz. Engineering content-centric future Internet applications. Master's thesis, 30 hp, supervised by Dr. Mauro Caporuscio. Linnaeus University, November 2018.
- **Opponent for:** Jiří Kalousek. Context-aware P2P network construction. Master's thesis, 15 hp, supervised by Dr. Mauro Caporuscio. Linnaeus University, June 2017.

Language Skills

- Native Russian and Ukrainian
- Advanced English
- Intermediate Swedish
- Basic German

Additional Training

Courses at Linnaeus University*

- 2DV005 Current Topics within Computer Science, 7.5 hp (January 2013)
- 4DV008 Selected Topics in Compiling, 7.5 hp (March 2012)
- 4DV103 Software Technology Project, 7.5 hp (March 2012)
- 4DV101 Software from Components, 7.5 hp (February 2012)
- 4DV105 Applied Program Analysis, 7.5 hp (January 2012)
- 2DV106 Android for Java Programmers, 7.5 hp (December 2012)
- 1DV300 Computer Graphics, 7.5 hp (November 2011)
- 4DV107 Software Quality, 7.5 hp (April 2011)
- 4DV104 Web Services, 7.5 hp (March 2011)
- 4DV006 Compiler Construction I, 7.5 hp (February 2011)

*Excluding the courses included in the PhD degree

Online Education Courses*

- Introduction to Natural Language Processing (Coursera, January 2016)
- MongoDB for Java Developers (MongoDB University, May 2014)
- Discrete Inference and Learning in Artificial Vision (Coursera, January 2014)
- Artificial Intelligence (edX, May 2013)
- Pattern-Oriented Software Architectures for Concurrent and Networked Software (Coursera, March 2013)
- MongoDB for Developers (Python) (MongoDB University, March 2013)
- Software as a Service, parts I and II (edX, February–March 2013)
- AI Planning (Coursera, January 2013)
- Image and Video Processing (Coursera, January 2013)
- Introduction to Philosophy (Coursera, January 2013)
- Neural Networks for Machine Learning (Coursera, October 2012)
- Functional Programming Principles in Scala (Coursera, September 2012)
- Algorithms (Part I) (Coursera, September 2012)

Attended Tutorials

- Thierry Driver. The Beautiful Science of Data Visualisation. Tableau Workshop at Linnaeus University, 2018. URL: <https://lnu.se/en/meet-linnaeus-university/current/events/2018/the-beautiful-science-of-data-visualisation/>
- Ian Nabney, Jaakko Peltonen, and Daniel Archambault. Machine Learning Methods in Visualisation for Big Data 2017. Tutorial at EuroVis 2017. URL: <http://mlvis2017.hiit.fi/>
- Dominikus Baur and Moritz Stefaner. Everything Except the Chart: Developing Complex Web-based Visualizations. Tutorial at IEEE VIS 2014. URL: <http://ieevis.org/year/2014/info/overview-amp-topics/accepted-tutorials>
- Rita Borgo, Min Chen, Eamon Maguire, and Sine McDougall. Glyph-based Visualization. Tutorial at IEEE VIS 2014. URL: <http://ieevis.org/year/2014/info/overview-amp-topics/accepted-tutorials>

Language Training

- Svenska för Invandrare (SFI) (Komvux Växjö & Eductus, April 2014)
- 1SV731 Beginners' Swedish, part I, 7.5 hp (Linnaeus University, November 2011)

Software Development Experience

- Java (SE, Android; ANTLR; JUNG, Prefuse, Graphviz; Spark web framework)
- JavaScript (jQuery; D3, Rickshaw, yFiles for HTML)
- Python (NumPy, SciPy; Matplotlib; scikit-learn, NLTK, gensim; Flask)
- Web design (Bootstrap)
- Database programming (MongoDB, MySQL, SQLite)

- Shell-scripting (Bash)
- Version control systems (SVN, Mercurial, Git)
- C (SDL, OpenGL)
- C++ (Qt)
- Scientific computation environments (Octave, Scilab)

Software Usage Experience

- GNU/Linux, macOS power user
- Ubuntu Linux server administration
- LaTeX, LibreOffice, GIMP, Inkscape, yEd, Gephi proficient user

Other Activities and Results

- Technical reviewer for *Python Data Visualization Cookbook*, 1st (Packt Publishing, 2013, ISBN: 1782163360) and 2nd (Packt Publishing, 2015, ISBN: 1784396699) editions

Links

- Personal homepage: <https://kostiantyn.com/>
- ORCID profile: <https://orcid.org/0000-0002-1907-7820>
- Homepage @ LNU: <https://lnu.se/en/staff/kostiantyn.kucher/>
- ISOVIS group: <https://cs.lnu.se/isovis/>
- Google Scholar profile: <https://scholar.google.se/citations?user=V1cLzSsAAAAJ>
- ResearchGate profile: https://www.researchgate.net/profile/Kostiantyn_Kucher