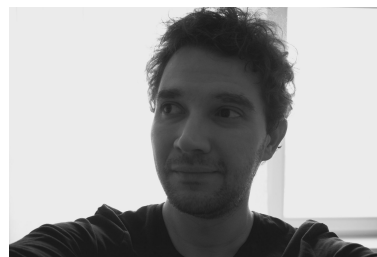


CURRICULUM VITAE

Name Bálint Zoltán Daróczy
Birth date February 12, 1983
Phone number +36 30 182 5098
Email address daroczyb@gmail.com



WORK EXPERIENCE

- Employer Institute for Computer Science and Control, Hungarian Academy of Sciences, Hungarian Academy of Sciences (MTA SZTAKI), 1111 Budapest, Lágymányosi u. 11., Hungary
Informatics Laboratory, Data Mining and Search Group (<http://dms.sztaki.hu/en>)
 - Date from December 2007
 - Position research associate from December 2017
 - Projects
 - main research projects as researcher/developer:
 - EC FP7 FET NADINE (2012-2015): “New tools and algorithms for directed network analysis”, https://cordis.europa.eu/result/rcn/156020_en.html
 - EC FP7 LAWA (2010-2013): “Longitudinal Analytics of Web Archive Data”, https://cordis.europa.eu/project/rcn/95489_en.html
 - EC FP7 JUMAS (2008-2010): “Digital library techniques in judicial domain”, https://cordis.europa.eu/project/rcn/85783_en.html
 - 2018-1.2.1-NKP-00008 (2018-2021): “Exploring the Mathematical Foundations of Artificial Intelligence.”
 - collaborations among others with researchers from
 - Ericsson Hungary
 - Eötvös Loránd University (ELTE)
 - Budapest University of Technology and Economics (BME)
 - Central European University (CEU)
 - University of Debrecen
 - University of Toulouse
 - Aalto University
 - Northeastern University (NU)
- Employer Research Center of Vehicle Industry, Széchenyi István University, H-9026 Győr, Egyetem sq. 1, Hungary
 - Date from July 2018
 - Position part time research associate
 - Projects ÚNKP FIKP 2017

EDUCATION AND RESEARCH ABROAD

- Duration 2006 – 2009
- Institute name and type Eötvös Loránd University (ELTE), Faculty of Informatics (IK), Budapest, Hungary
- Title of qualification PhD in Information Science and Technology (2017)
- Duration 2001 – 2006
- Institute name and type Budapest University of Technology and Economics, Faculty of Electrical Engineering and Informatics (BME VIK), Budapest, Hungary
- Title of qualification Master of Science in Engineering (2006)
- Language of education First four semesters in German

SCHOLARSHIPS, FELLOWSHIPS, AWARDS

- 2018 - 2021 MTA Premium Postdoctoral research fellowship, title: “Manifolds and deep structures”
- 2018 Young researcher award, MTA SZTAKI
- 2003/2004 Autumn DAAD - German Academic Exchange Service scholarship at Universität Karlsruhe, Fakultät für Informatik

LANGUAGES

- Native language Hungarian
- Additional languages English and German

COMPUTER SKILLS AND EXPERIENCES

- Programming languages daily use of python, unix shell and C/C++
- Operating systems Linux, Mac OS X, basic Windows*
- Additional experiences Open Compute Library Image Feature Framework (CLIFF): <https://dms.sztaki.hu/en/project/gaussian-mixture-modeling-gmm-and-fisher-vector-toolkit>
some experience in NumPy, Pandas, OpenCL, CUDA, Matlab/Octave, Xcode, Gnuplot, OpenCV, Latex and several graph propagation frameworks (TensorFlow, Chainer, Keras, GraphLab)

TEACHING EXPERIENCES

- As supervisor 6 MSc, 5 BSc thesis and 3 Student Research Competition (TDK) supervision

- Lectures/Seminars

Data Mining related MSc, BSc and PhD courses both in Hungarian and English at Budapest University of Technology and Economics (BME), Budapest, Hungary and at Aquincum Institute of Technology, Budapest, Hungary

PUBLICATIONS AND RESEARCH INTEREST

Main interest: kernel methods and manifolds, image and document representations, novelty and classification

15 conference proceedings, 7 journal and 13 working notes papers

Google Scholar: [https://scholar.google.hu/citations?](https://scholar.google.hu/citations?user=lbZ6D08AAAAJ&hl=en)

[user=lbZ6D08AAAAJ&hl=en](https://scholar.google.hu/citations?user=lbZ6D08AAAAJ&hl=en)

Selected publications:

Kerepesi, Cs., Daróczy, B., Sturm, Á., Vellai, T., & Benczúr, A. (2018): Prediction and characterization of human ageing-related proteins by using machine learning, *Scientific Reports* 8 (4094), Springer Nature, 2018

Paragh, Gy., Harangi, M., Karányi, Zs., Daróczy, B., Németh, Á., & Fülöp, P. (2018): Identifying patients with familial hypercholesterolemia using data mining methods in the Northern Great Plain region of Hungary, *Atherosclerosis*, Elsevier, accepted

Daróczy, B., Ayala-Gómez, F. & Benczúr, A. (2018): Infrequent Item-to-item Recommendation via Random Fields, In *Proceedings of 17th MICAI 2018, Lecture Notes on Artificial Intelligence (LNAI)*, Springer, to appear

Ayala-Gómez, F., Daróczy, B., Benczúr, A., Mathioudakis, M., & Gionis, A. (2018). Global citation recommendation using knowledge graphs. *Journal of Intelligent & Fuzzy Systems*, 34(5), 3089-3100.

Wachs, J., Daróczy, B., Hannák, A., Páll, K., & Riedl, C. (2018). And Now for Something Completely Different: Visual Novelty in an Online Network of Designers. In *Proceedings of the 2018 ACM on Web Science Conference (WebSci'18)*, Amsterdam, The Netherlands, 2018

Ayala-Gómez, F., Daróczy, B., Mathioudakis, M., Benczúr, A., & Gionis, A. (2017): Where Could We Go?: Recommendations for Groups in Location-Based Social Networks. In *Proceedings of the 2017 ACM on Web Science Conference (WebSci'17)*, 93-102, Troy, NY, USA, 2017

Wachs, J., Hannák, A., Vörös, A., & Daróczy, B. (2017). Why Do Men Get More Attention? Exploring Factors Behind Success in an Online Design Community. In *Proceedings of the 11th International AAAI Conference on Weblogs and Social Media (ICWSM'17)*, Montreal, Canada

Daróczy, B., Vaderna, P., & Benczúr, A. (2015). Machine learning based session drop prediction in LTE networks and its SON aspects. In *Vehicular Technology Conference (VTC Spring)*, 2015 IEEE 81st (pp. 1-5). IEEE.

Daróczy, B., Siklósi, D., Pálovics, R., & Benczúr, A. A. (2015): Text Classification Kernels for Quality Prediction over the C3 Data Set. In *Proceedings of the 24th International Conference on World Wide Web (pp. 1441-1446) WWW 2015*. ACM.

Pálovics, R., Daróczy, B., Benczúr, A., Pap, J., Ermann, L., Phan, S., Chepelianskii, A. D. & Shepelyansky, D. L. (2015): Statistical analysis of Nomad customer votes for spots of France. *The European Physical Journal B* 88 (8)

Erdélyi, M., Benczúr, A. A., Daróczy, B., Garzó, A., Kiss, T., & Siklósi, D. (2014): The classification power of web features. *Internet Mathematics*, 10(3-4), 421-457.