Ferenc Béres

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Address: Hungary; 1106, Budapest Hatház utca 14.

Date of birth:

1991-10-16; Hungary, Eger

Education:

2016-present: **Eötvös Loránd University –**
PhD School of Computer Science
Research area: dynamic network analysis

2013-2015: Eötvös Loránd University **–**
Applied Mathematics *MSc; spec. in Computer Science*
Diploma thesis: Centrality on dynamic graphs

2010-2013: Eötvös Loránd University **–**
Mathematics BSc; spec. in Applied Mathematics

Work experience:

2014-present: ***Institute for Computer Science and Control; Informatics Laboratory (SZTAKI) – Data scientist and Research associate***
Tasks:

- Research on dynamic social networks (Twitter, Ethereum, Bitcoin Lightning network)
- Teaching data science for companies
- Participation in industrial data mining projects (fraud detection, factory data analysis) and challenges.
- Data collection and cleaning
- Feature engineering
- Training/evaluating Machine Learning (ML) models
- Visualization

2012-2013: *PR-AUDIT Kft.; IT Security and Consultancy– Trainee*

Languages:

- English (Intermediate level - B2)

- Hungarian (mother tongue)

Ferenc Béres

Software experience:

- Python data science ecosystem: pandas, numpy, scikit-learn, networkx, keras, pytorch, gensim, nltk, spacy, matplotlib, seaborn, plotly, folium etc.
- Database technologies: MongoDB, SQlite, SQL
- Other: Java, C++, Microsoft Office

Data mining challenges:

- ACM RecSys Challange 2018 – 9th (team) prize
- ACM WSDM Cup 2019 – 10th (team) prize

Relevant publications:

- F Béres, IA Seres, AA Benczúr, A Cryptoeconomic Traffic Analysis of Bitcoins Lightning Network, Cryptoeconomic Systems ‘20 (CES’20), 2020
- F Béres, DM Kelen, R Pálovics, AA Benczúr, Node embeddings in dynamic graphs, Applied Network Science 4 (1) 64, 2019
- F Béres, R Pálovics, A Oláh, AA Benczúr, Temporal walk based centrality metric for graph streams, Applied Network Science 3 (1) 32, 2018
- DM Kelen, D Berecz, F Béres, AA Benczúr, Efficient K-NN for Playlist Continuation,
  Proceedings of the ACM Recommender Systems Challenge, 2018
- F Béres, DM Kelen, AA Benczúr, Sequential skip prediction using deep learning and ensembles, WSDM Cup, 2019

Conferences and Summer Schools:

- Cryptoeconomic Systems ‘20 (CES’20), MIT Campus, Cambridge, MA – presenter
- 3rd International Summer School on Deep Learning (DeepLearn), Warsaw 2019 – participant
- 7th International Conference on Complex Networks and Their Applications, Cambridge 2018 – presenter
- 24th ACM SIGKDD Conference, London 2018 – presenter at the 14th MLP workshop
- 6th International Conference on Complex Networks and Their Applications, Lyon 2017 – presenter
- ECML PKDD, Riva del Garda 2016 – organizer of ECML Discovery Challenge on Bank Card Usage Analysis