

# 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)

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## 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 Challenge 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