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 E-mail: james@hodson.io

EMPLOYMENT

- AI for Good Foundation (US 501(c)3 Public Charity), CEO** 2015–Present
International non-profit partnered with the UN to support AI for global social challenges (ai4good.org).
- Hodson Labs, Advising and Angel Investing** 2015–Present
Investment, Board/Advisory Roles, Research Management for a portfolio of Data Science and Social Impact firms.
- Global Consequences, Inc., President and COO** 2015–2016
Responsible for research, operations, and strategy.
- Bloomberg L.P., Manager, Founder of AI Research Group** 2010–2015
Directly responsible for 25+ researchers working on topics across AI; BloombergLabs brand building; Global research grants and collaborations.
- DFKI – German National Research Center for AI, Researcher** 2009
Researcher in Machine Translation for EU FP7 Funded Projects.

EDUCATION

- Ph.D. Candidate, Jožef Stefan Institute** 2016–Present
 Artificial Intelligence Laboratory
Research Fields: NLP, Complex Networks, Economics
- B.A., Princeton University** 2006–2010
 Philosophy of Science (Computer Science)
Certificates: Applications of Computing, Translation

HONOURS, GRANTS, AND AWARDS

- Marie Skłodowska Curie Doctoral Fellowship 2017—2019
- Northern Finance Association, *Best Paper Award* 2018
- Jack Treynor Prize from Institute for Quantitative Research in Finance, *Winner* 2017
- Dr. Richard A. Crowell Memorial Prize, *2nd Place* 2017
- Principal Investigator, DARPA GRAPHS 2015
“Bayesian Inference Networks for Predictive Analysis of Financial Markets”

ACADEMIC PUBLICATIONS AND PATENTS

- “Disambiguation & Prediction of Dynamic Hierarchical Structures.” *U.S. Patent No. 10,147,020*. 2018.
- “The Creative Machine.” *Proceedings of the 8th International Conference on Computational Creativity (ICCC)*. 2017.
- “System and Method for Interactive Machine Translation.” *U.S. Patent No. 9,613,026*. 2017.
- “Table Extraction from Text Documents.” In: *Encyclopedia of Machine Learning and Data Mining*. Sammut C., Webb G. (eds). Springer. Boston, MA. 2016.

ACADEMIC PUBLICATIONS AND PATENTS (Cont.)

- “Unsupervised Techniques for Extracting and Clustering Complex Events in News.”
Proceedings of the North American ACL Conference, 2014. (With D. Rusu, A. Kimball)
- “Towards an Effective Toolkit for Translators.” *Proceedings of the International Translating and the Computer Conference*. 2009. (With A. Eisele, C. Federmann)

POLICY AND BUSINESS PUBLICATIONS

- “Can Artificial Intelligence Help Us Achieve Universal Quality Education?” *United Nations Blue Dot Magazine*. 2018.
- “Solving Global Sustainability Challenges with the Help of AI.” *Thomson Reuters “Answers On” Interview*. 2018
- “How to Make Your Company Machine Learning Ready.” *Harvard Business Review*, 2016.

ORGANIZED CONFERENCES AND WORKSHOPS

- | | |
|---|------------|
| ACM SIG-KDD, Organizing Committee Member | 2019 |
| UN World Data Forum, Dubai, Workshop | 2018 |
| ACM SIG-KDD, Program Committee Member | 2018 |
| ACM SIG-KDD, Workshop, <i>Data Science for a Fragile Earth</i> | 2017, 2018 |
| World Wide Web Conference, Workshop, <i>NewsWWW</i> | 2015 |
| Schloss Dagstuhl Seminar, <i>X-Lingual X-Media Content Linking</i> | 2015 |
| ACM SIG-KDD, <i>KDD at Bloomberg (Data Science for Social Good Day)</i> | 2014 |

KEYNOTES AND SELECTED INVITED LECTURES

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|--|------|
| National Academy of Sciences, Washington DC
Invited Talk: “ <i>Transforming Data Science Education.</i> ” | 2018 |
| Brazilian Innovation Summit, São Paulo
Keynote: “ <i>Harnessing DS for Global Sustainable Development.</i> ” | 2018 |
| ACM SIG-KDD Applied Data Science
Keynote: “ <i>Humans, Jobs, and the Economy.</i> ” | 2018 |
| ACM SIG-KDD Plenary Panel
Panel: “ <i>Societal Impact of Data Science and AI.</i> ” | 2018 |
| AI Expo Global Conference, London
Invited Talk: “ <i>AI for Global Sustainable Development.</i> ” | 2018 |
| 5 th Annual RavenPack Research Symposium
Invited Talk: “ <i>People, Firms, Economies</i> ” | 2017 |
| World Economic Forum: The Future of Employment
Panel: “ <i>AI & the Future Employment Market</i> ” | 2017 |
| United Nations Principles for Responsible Investing Conference
Keynote: “ <i>The Future of Sustainable Investing</i> ” | 2015 |
| Joint Conference on Robotics and Intelligent Systems (JCRIS)
Keynote: “ <i>A Better Scientific Method for ML Research</i> ” | 2014 |
| Neural Information Processing Systems Conference (NIPS)
Invited Talk: “ <i>Unsupervised Information Extraction</i> ” | 2013 |

TEACHING

1st Romanian Summer School on Machine Learning Course: <i>Machine Learning for Financial Applications (8 hours)</i>	2018
European Semantic Web Conference, Summer School Course: <i>Global Media Monitoring & Pattern Understanding (6 hours)</i>	2015
3 rd School in Machine Learning and Knowledge Discovery Course: <i>NLP in Finance; University of São Paulo (8 hours)</i>	2014

WORKING PAPERS

- “A Distributed Information Verification Model for Financial Markets”
- “Discovering Hierarchical Structure from Bags of Paths”
- “Career Consequences of Corporate Scandals.” (with A. Fedyk)
- “Asymmetric Peer Group Learning: Network Prediction.” (with J. Erett)
- “Trading on Talent: Human Capital & Firm Performance” (with A. Fedyk)
Peer-reviewed conferences: *Northern Finance Association 2018; Western Economics Association 2018, Western Decision Sciences 2018.*
- “When Can the Market Identify Stale News?” (with A. Fedyk)
Peer-reviewed conferences: *Trans-Atlantic Doctoral Conference 2015; World Finance Conference 2015, Northern Finance Association 2018, ECWFC at Western Finance Association 2018.*

SOCIAL ENTERPRISES (Non-Executive)

- Financial Data Science Association**, Board of Directors 2015–Present
Encouraging the judicious application of ML to Finance (www.fdsaglobal.org).

LANGUAGES

C/C++; Python; Matlab | English, Italian, French; Russian (Intermediate)