

# Robin VOGEL, Ph.D.

Postdoctoral researcher at the University of Edinburgh

## PERSONAL DATA

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## WORK EXPERIENCE

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| 2020-Now<br>Edinburgh, UK   | <b>University of Edinburgh, Research Assistant</b><br>Research multi-task and multi-domain learning strategies for CNNs.<br>VICO research group, under the supervision of Dr. Hakan Bilen.                            |
| 2017-2020<br>Paris, France  | <b>IDEMIA, Research Engineer/PhD Student (CIFRE)</b><br>Leading firm in biometric identification systems.<br>Developed techniques to improve facial recognition systems, supervised an intern.                        |
| 06-10/2015<br>Paris, France | <b>Eleven Strategy, Junior Consultant/Data Scientist</b><br>Strategy firm specialized on digital and data-driven transformations.<br>Performed data visualization and data analysis tasks for the firm's consultancy. |
| 06-08/2014<br>Paris, France | <b>Coyote System, Research Engineer</b><br>Young french tech company that provides radar warning systems.<br>Developed statistical analyses to advance a new R&D project.   |

## EDUCATION

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| 2016-2020<br>Paris, France | <b>Télécom Paris, PhD Student</b><br>Top engineering school in information technology.<br>University-industry collaboration (CIFRE), supervised by Prof. Stephan Cléménçon.  |
| 2015-2016<br>Paris, France | <b>École Polytechnique, Master's Degree (M2 Data Sciences)</b><br>Master program in the first engineering school in France.<br>Machine learning theory and practice, advanced optimization, distributed computing. |
| 2013-2016<br>Paris, France | <b>ENSAE Paris, Engineer's Degree</b><br>Top engineering school in statistics and machine learning.<br>Measure theory, probability theory, computational and theoretical statistics.                               |
| 2011-2013<br>Lyon, France  | <b>Lycée du Parc, Classe Préparatoire MPSI-MP</b><br>Intensive preparatory course for top engineering schools.<br>Two-year program in fundamental mathematics, physics and computer science.                       |

## RESEARCH PUBLICATIONS

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| AISTATS 2021 | <i>Learning Fair Scoring Functions: Fairness Definitions, Algorithms and Generalization Bounds for Bipartite Ranking.</i><br><b>R. Vogel</b> , A. Bellet, S. Cléménçon. |
| AISTATS 2020 | <i>A Multiclass Classification Approach to Label Ranking.</i><br>S. Cléménçon and <b>R. Vogel</b> .   |
| ESANN 2020   | <i>Weighted ERM: Transfer Learning based on Importance Sampling.</i><br><b>R. Vogel</b> , M. Achab, S. Cléménçon, C. Tiller.  |
| ECML 2019    | <i>Trade-offs in Large-Scale Distributed Tuplewise Estimation and Learning.</i><br><b>R. Vogel</b> , A. Bellet, S. Cléménçon, O. Jelassi and G. Papa.                   |
| LOD 2019     | <i>On Tree-based Methods for Similarity Learning.</i><br>S. Cléménçon and <b>R. Vogel</b> .   |
| ICML 2018    | <i>A Probabilistic Theory of Supervised Similarity Learning for Pointwise ROC Curve Optimization.</i><br><b>R. Vogel</b> , A. Bellet and S. Cléménçon.                  |

## COMPUTER SKILLS, LANGUAGES & INTERESTS

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**IT skills:** Experienced: Python, TensorFlow, Linux, C/C++. | Beginner: Microsoft Office.

**Languages:** FRENCH: Native | ENGLISH: Fluent (TOEIC 975/990) | SPANISH: Beginner

**Interests:** Exercise, travelling and drawing.