

JOËL KUIPER

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PROFILE

Entrepreneurial Data Scientist with a background in Artificial Intelligence. More than 10 years of experience designing and implementing full-stack solutions in various environments. Always keen on applying the state of the art to real world problems. Academically published in bioinformatics, epidemiology and machine learning. Loves problem solving and creative thinking. Hobby astronomer by night.

WORK EXPERIENCE

Senior Research & Development Engineer 2015 – present
Doctor Evidence, California, Santa Monica

- Architected and implemented data science solutions in Evidence Based Medicine by applying Natural Language Processing, Machine Learning and Semantic Web
- Hired and managed fully remote team for creating medical informatics tools using Agile methodologies.

Founder & Owner 2014 – present
Vortex Systems, Groningen, vortex.nl

- Founded consulting firm that aids businesses in applying next generation Machine Learning and Natural Language Processing
- Received Research & Development tax benefits for pushing the status quo
- Clients in academia, health care and finance.

Analyst & Developer *Medical Sciences* 2013 – 2014
University Medical Center Groningen, Groningen

- Developed system for automatic annotation of biomedical literature using machine learning
- Published numerous scientific papers in health care and bioinformatics.

Software developer *Department of Epidemiology* 2012 – 2013
University Medical Center Groningen, Groningen, drugis.org

- Worked on decision support systems that use Randomised Clinical Trials data and Bayesian statistics
- Designed and implemented new features in Java, R and Javascript.

Interaction Designer 2011 – 2012
Factlink, Groningen

- Designed, prototyped and implemented user interfaces for startup that aimed to provide credibility on the web by allowing annotations everywhere.

PR-coordinator *Institute for Computing & Cognition* 2010
University of Groningen, Groningen

- Managed team of six student assistants
- Developed presentations, communication strategies and workshops.

Extreme Blue Intern Summer 2009
IBM Center for Advanced Studies (CAS), Amsterdam

- Collaborated with four international students in IBM's top talent internship
- Consulted Rotterdam Climate initiative on how to raise public awareness to climate change and promote their methods
- Prototyped serious massive multiplayer online game.

EDUCATION	<p>Bachelor of Science (220 EC) Artificial Intelligence 2006 – 2011 University of Groningen, Groningen Minor: Neuroscience</p> <p>Pre-university Secondary Education (VWO) 2000 – 2006 Piter Jelles Aldlân, Leeuwarden Profile: Science & Health (with philosophy)</p>		
EXTRA-CURRICULAR ACTIVITIES	<p>Software Developer <i>Stichting KEI</i> 2010 – 2012 <ul style="list-style-type: none"> • Designed and implemented web based administrative tool for 4000 annual participants of the freshmen introductory week • The system can generate reports, manage personal information, and intelligently assign participants to groups based on preferences. </p> <p>Scientific Modeller <i>iGEM Groningen</i> Summer 2010 <ul style="list-style-type: none"> • Participated in iGEM (International Genetically Engineered Machine) competition in synthetic biology • Created computer models of gene expression and bacterial biofilm growth • Gold medal for synthesising artificial biological constructs. </p> <p>Chairman <i>Student association Cover</i> 2007 – 2008 <ul style="list-style-type: none"> • Coordinated the board of the student association for Computing & Cognition. </p>		
SKILLS & INTERESTS	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <p>Programming</p> <ul style="list-style-type: none"> • Clojure, Python, R, Java • Agile development • Emacs, LaTeX, Git • Ubuntu/Debian servers <p>Applied Machine Learning</p> <ul style="list-style-type: none"> • Supervised Learning, Clustering • Natural Language Processing • Neural Networks • Statistics & Data analytics </td> <td style="vertical-align: top; width: 50%;"> <p>Web Development</p> <ul style="list-style-type: none"> • HTML5, CSS • Javascript (React, Angular, jQuery) • XML, XSLT, XPath • Semantic Web (Ontologies, RDF) <p>Design</p> <ul style="list-style-type: none"> • UI Mockups & Prototypes • Usability Testing • Photography, Astrophotography • Photoshop </td> </tr> </table>	<p>Programming</p> <ul style="list-style-type: none"> • Clojure, Python, R, Java • Agile development • Emacs, LaTeX, Git • Ubuntu/Debian servers <p>Applied Machine Learning</p> <ul style="list-style-type: none"> • Supervised Learning, Clustering • Natural Language Processing • Neural Networks • Statistics & Data analytics 	<p>Web Development</p> <ul style="list-style-type: none"> • HTML5, CSS • Javascript (React, Angular, jQuery) • XML, XSLT, XPath • Semantic Web (Ontologies, RDF) <p>Design</p> <ul style="list-style-type: none"> • UI Mockups & Prototypes • Usability Testing • Photography, Astrophotography • Photoshop
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SELECTED PUBLICATIONS	<p>Kuiper, J., Marshall, I., Wallace, B., and Swertz, M. (2014). Spá: A web-based viewer for text mining in evidence based medicine. In <i>Proceedings of the European Conference on Machine Learning (ECML-PKDD 2014)</i>, volume 8726 of <i>Lecture Notes in Computer Science</i>, pages 452–455. Springer Berlin Heidelberg.</p> <p>Kuiper, J., van den Heuvel, E. R., and Swertz, M. A. (2015). The hybrid synthetic microdata platform: A method for statistical disclosure control. <i>Biopreservation and Biobanking</i>, 13(3):178–182.</p> <p>Marshall, I. J., Kuiper, J., and Wallace, B. C. (2014). Automating risk of bias assessment for clinical trials. In <i>Proceedings of the ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB)</i>, pages 88–95, New York, NY, USA. ACM.</p> <p>Wallace, B. C., Kuiper, J., Sharma, A., Marshall, I. J., and Zhu, M. (2016). Extracting pico sentences from clinical trial reports using supervised distant supervision. <i>Journal of Machine Learning Research</i>.</p>		
LANGUAGES	Dutch (native), English (TOEFL iBT 116/120)		