

# CURRICULUM VITAE

## PERSONAL INFORMATION

Name **ADAM WESTERSKI**  
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Nationality Polish  
Date of birth 17.12.1982

## WORK EXPERIENCE

- Dates (from – to) **April 2014 – onwards**  
• Occupation or position held **Scientist**  
• Main activities and responsibilities Development of Machine Learning based solutions and algorithms for national and large multinational companies. Solving real-world problems across multiple industry verticals starting from client acquisition to project scoping, research, implementation and production deployment. My key projects involved use of predictive algorithms and outlier detection, supervised and unsupervised machine learning. I participated in those as project lead and principal data scientist.  
*Research areas:* Data Analytics, Outlier Detection, Fraud Detection, Machine Learning  
*Development technologies:* R, Python, JAVA, HTML, CSS  
• Name and address of employer Institute for Infocomm Research, A\*STAR, Singapore
- Dates (from – to) **September 2013 – February 2014**  
• Occupation or position held **Lead Software Engineer**  
• Main activities and responsibilities Development of energy consumption prediction product using machine learning algorithms for an SME working towards commercialization of research technologies in the areas of Energy Management and Smart Cities.  
My main task was to design and implement the foundations for the future product of the company.  
*Research areas:* Machine Learning, Supervised Learning, Statistics  
*Development technologies:* JAVA, Spring Framework, Hibernate, Weka  
• Name and address of employer HyperTech, Greece
- Dates (from – to) **September 2008 – February 2013**  
• Occupation or position held **Researcher**  
• Main activities and responsibilities Research and development for EU and Spanish projects on data analytics and knowledge management in Web Systems for large-scale social collaboration portals. My key achievements relate to solutions for assessment and analysis of information from large datasets created via crowdsourcing (Gi2MO.org project).  
Aside of research activity, I participated and led numerous initiatives regarding EU and domestic project funding proposals, as well as started my own projects.  
*Research areas:* Crowdsourcing, Open Innovation, Semantic Web, Opinion Mining  
*Development technologies:* JAVA/PHP, HTML5, CSS3, JavaScript / ActionScript + mobile development (iOS, Windows Phone, Windows 8) + metadata processing (RDF, OWL, SPARQL)  
• Name and address of employer Universidad Politecnica de Madrid, Madrid, Spain

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| <ul style="list-style-type: none"> <li>• Dates (from – to)</li> <li>• Occupation or position held</li> </ul> | <p><b>July 2011 – September 2011</b><br/><b>Visiting Researcher</b></p>   |
| <ul style="list-style-type: none"> <li>• Main activities and responsibilities</li> </ul>                     | <p>Research on automatic annotation methods based on machine learning. The research was done for the needs of Gi2MO.org project on open innovation and delivered solutions for automatic annotation of ideas with domain independent taxonomies.</p> <p><u>Research areas:</u> automatic annotation, machine learning, Idea Management Systems</p> <p><u>Development technologies:</u> Java, PHP, HTML, JavaScript</p>  |
| <ul style="list-style-type: none"> <li>• Name and address of employer</li> </ul>                             | <p>Institute for the Management of Information Systems (IMIS), Athena Research Center, Greece</p>   |
| <ul style="list-style-type: none"> <li>• Dates (from – to)</li> <li>• Occupation or position held</li> </ul> | <p><b>October 2007 – July 2008</b><br/><b>Research Assistant</b></p>  |
| <ul style="list-style-type: none"> <li>• Main activities and responsibilities</li> </ul>                     | <p>Research and development in a project called Sindice- a lookup index for Semantic Web documents built with data intensive cluster computing techniques. My main interests in the project were connected to development of APIs and applications that allow integration of the indexing engine with other research projects. One of my majors goals was to focus on usability issues of Semantic Web research.</p> <p><u>Research areas:</u> APIs, interfaces for consuming and large scale processing of web metadata</p> <p><u>Development technologies:</u> Java/ J2EE, JavaScript</p> |
| <ul style="list-style-type: none"> <li>• Name and address of employer</li> </ul>                             | <p>Digital Enterprise Research Institute (DERI) Galway, Ireland</p>   |
| <ul style="list-style-type: none"> <li>• Dates (from – to)</li> <li>• Occupation or position held</li> </ul> | <p><b>December 2006 – August 2007</b><br/><b>J2EE Developer</b></p>   |
| <ul style="list-style-type: none"> <li>• Main activities and responsibilities</li> </ul>                     | <p>J2EE development for a company working in integration of telecommunication services with finance and banking, with particular interest in mobile technologies.</p> <p>My responsibilities involved: support for the development and maintenance of existing J2EE applications, development of new systems and their integration with business partner systems.</p>   |
| <ul style="list-style-type: none"> <li>• Name and address of employer</li> </ul>                             | <p>Blue Media Sp. z.o.o., Sopot, Poland</p>   |
| <ul style="list-style-type: none"> <li>• Dates (from – to)</li> <li>• Occupation or position held</li> </ul> | <p><b>February 2006 – July 2006</b><br/><b>Research Internship</b></p>  |
| <ul style="list-style-type: none"> <li>• Main activities and responsibilities</li> </ul>                     | <p>Research for the needs of project called eLITE that aimed to enhance data semantics in the e-Learning environment. Main fields of my interest within the project: e-Learning services composition, service search optimisation with the usage of Semantic Overlay Networks.</p> <p>Apart of the research work, I was a consultant in a sub-project of eLITE. My competences included help in managing and directing a group of internship students that develop a framework for e-Learning service composition.</p>  |
| <ul style="list-style-type: none"> <li>• Name and address of employer</li> </ul>                             | <p>Digital Enterprise Research Institute (DERI) Galway, Ireland</p>   |
| <ul style="list-style-type: none"> <li>• Dates (from – to)</li> <li>• Occupation or position held</li> </ul> | <p><b>February 2004 – February 2006</b><br/><b>Java Developer</b></p>   |
| <ul style="list-style-type: none"> <li>• Main activities and responsibilities</li> </ul>                     | <p>Java application design and development in a consultancy company delivering products and solutions for multiple local businesses. My work related mostly to development of desktop applications leveraging databases and facilitating variety of client business logic.</p>  |
| <ul style="list-style-type: none"> <li>• Name and address of employer</li> </ul>                             | <p>NETCETERA, Gdansk, Poland</p>  |
| <ul style="list-style-type: none"> <li>• Dates (from – to)</li> <li>• Occupation or position held</li> </ul> | <p><b>July 2005 – September 2005</b><br/><b>Internship</b></p>  |
| <ul style="list-style-type: none"> <li>• Main activities and responsibilities</li> </ul>                     | <p>Work on digital library system called JeromeDL written in J2EE and utilizing Semantic Web technology. Mostly involved implementing RDF database backend cooperation with all layers of a Java web application.</p>   |
| <ul style="list-style-type: none"> <li>• Name and address of employer</li> </ul>                             | <p>Digital Enterprise Research Institute (DERI) Galway, Ireland</p>   |

## EDUCATION

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
  - PhD Thesis title

**September 2008 – February 2013**

**Universidad Politécnica de Madrid. Telecommunication Engineering School.**

Semantic Technologies, Data Analytics, Open Innovation, Idea Management Systems, Crowdsourcing, CSCW

PhD

Semantic Technologies in Idea Management Systems: A Model for Interoperability, Linking and Filtering.

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
  - Master Thesis title

**September 2001 – September 2006**

**Gdansk University of Technology. Faculty of Electronics, Telecommunications and Informatics.**

Information Technology (Software Engineering and Databases Primary Specialization, Geoinformatics Secondary Specialization)

Master of Science

Usage of Semantic Web Mechanisms for Supporting Web Services Composition in e-Learning Solutions.

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Level in national classification

**August 1997 – June 2001**

**V Liceum Ogólnokształcące im. Stefana Żeromskiego**

Information Technology. Extended English and German language class profile.

Secondary School

## COURSES AND TRAINING

- Dates (from – to)
  - Course title
- Organization name/type
  - Skills covered

**September 2020 – February 2021**

**Nano-degree - Self-Driving Car Engineer**

Udacity (online course)

Autonomous vehicles, deep learning, computer vision, robotics

- Dates (from – to)
  - Course title
- Organization name/type
  - Skills covered

**February 2017 – August 2017**

**Visual Communication**

Nanyang Academy of Fine Arts, Singapore

Graphic Design, Colour Composition, Typography

- Dates (from – to)
  - Course title
- Organization name/type
  - Skills covered

**February 2004 – 2005**

**Marketing and Management**

Gdansk University of Technology, Faculty of Management and Economics, Poland

Marketing principles, Law basics, Finance Math / Accountancy

## LANGUAGE COURSES

- Dates (from – to)
  - Skills covered
- Organization name/type

January 2012 – January 2014

**Basic Greek**

private classes

- Dates (from – to) September 2008 - October 2008
- Skills covered **Intermediate Spanish (intensive course)**
- Organization name/type Paraninfo, Centro Acreditado del Instituto Cervantes
  
- Dates (from – to) September 2005 – June 2008
- Skills covered **Basic Spanish**
- Organization name/type EMPiK Language School, Poland  
/ Galway Language Centre, Ireland
  
- Dates (from – to) September 2003 – June 2004
- Skills covered **CAE Examination Preparation Course** (September 2003 – June 2004)  
**CAE Examination** (June 2004)
- Organization name/type British Council
  
- Dates (from – to) August 1995 – June 1997
- Skills covered **Basic English** (August 1990 – June 1992)  
**Pre-intermediate English Course** (August 1995 – June 1996)  
**Advanced English Course** (August 1996 – June 1997)
- Organization name/type English-Polish school of Languages

## SELECTED PUBLICATIONS

- CSCW / Innovation Management
- A. Westerski, R. Kanagasabai: *In Search of Disruptive Ideas: Outlier Detection Techniques in Crowdsourcing Innovation Platforms*, Journal of Web-Based Communities, in-press, 2019
- A. Westerski, T. Dalamagas, C. A. Iglesias: *Classifying and comparing community innovation in Idea Management Systems*, Decision Support Systems, Vol.54 (3), 2013
- A. Westerski, C. A. Iglesias, T. Nagle: *The Road from Community Ideas to Organisational Innovation: A Life Cycle Survey of Idea Management Systems*, Journal of Web-Based Communities, Vol.7 (4), 2011
- A. Westerski, C. A. Iglesias: *Exploiting Structured Linked Data in Enterprise Knowledge Management Systems: An Idea Management Case Study*, EDOC Conference, Helsinki, 2010
- A. Westerski, C. A. Iglesias, and F. T. Rico: *A Model for Integration and Interlinking of Idea Management Systems.*, 4th Metadata and Semantics Research Conference (MTSR 2010), 2010
- Semantic Search Engines
- A. Westerski, A. Iqbal, G. Tummarello, S. Decker, *Sindice Widgets: Lightweight embedding of Semantic Web capabilities into existing user applications*, In Proceedings of the 4th International Workshop on Semantic Web Enabled Software Engineering, International Semantic Web Conference (ISWC 2008), Karlsruhe, 2008
- Semantic Digital Libraries
- S. R. Kruk, A. Westerski, E. Kruk: *Architecture of Semantic Digital Libraries*. Semantic Digital Libraries, pp. 77-85, Springer 2009
- A. Westerski, S. R. Kruk, K. Samp, T. Woroniecki, F. Czaja and C. O'Nuallain, *E-learning based on the Social Semantic Information Sources*, 1st Latin American conference on Learning Objects, Guayaquil, 2006
- Finance and Fraud Detection
- A. Westerski, R. Kangasabai, K. Sim: *Method of detecting fraud in procurement and system thereof*, International Patent No. WO2017116311A1, 2017
- A. Westerski, R. Kangasabai, J. Wong, and H. Chang: *Prediction of Enterprise Purchases Using Markov Models in Procurement Analytics Applications*, Procedia Computer Science, vol. 60, 2015

## PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.*

MOTHER TONGUE

Polish

OTHER LANGUAGES

### English

Advanced (20+ years)

### Spanish

Intermediate (4+ years)

### German

Basic (4 years)

### Greek

Basic (1 year)

## SOCIAL SKILLS AND COMPETENCES

*Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.*

**Team work:** I worked in many kinds of teams during my school, university and professional career years. Some of them were focused on scientific problems, while others strictly engineering oriented. Furthermore, I have experience in managing small groups (3-6 people). For example, I am the founder and manager of an R&D project called Gi2MO, an open-source Idea Management System, which gathers a number of developers and international research partners. In more recent years, I was the lead scientist and co-creator of PACE fraud detection framework, developed by a team of scientists of I2R Singapore, patented and licensed to several companies.

**Inter cultural experience:** during Secondary School I was in Germany as a part of Polish-German Student Exchange Program. During university years I was an intern in Ireland where I learned to work in teams consisting of people from many different parts of world. After that I held research positions in Ireland, Spain, Greece and Singapore where I constantly cooperated with people of different origins, nationalities and languages.

## TECHNICAL SKILLS AND COMPETENCES

*With computers, specific kinds of equipment, machinery, etc.*

My knowledge is based on my individual work, studies during the Secondary school, the University (faculty Computer Science in all cases), and industrial work as software engineer. This includes operating with most of popular utility programs and operating systems as well as creating new software for variety of platforms.

Some of programming languages I used throughout my career:

- **Java** (extensive experience with both Java SE and Java EE)
- **R and Python** for data analysis, machine learning and statistical computing
- **server side web languages like PHP, Ruby on Rails, JSP, ASP** (finished Microsoft certified ASP.NET course)
- **client side scripting, mostly JavaScript, HTML5 and ActionScript** experience
- **mobile platform development** (iOS, Windows Phone, Windows 8)
- **C/C++** (experience with Visual C++ and C++ Builder environments)
- **Pascal** (includes 16bit and 32bit programming)
- **Assembler**

Apart of pure IT skills I hold some technical knowledge as well. I'm familiarized with various measuring devices like oscilloscopes etc. (I have both practical experience and theoretical knowledge concerning this subject)