

## 1 General

Position : DPhil in Machine Learning,  
*Department of Computer Science, University of Oxford, Oxford, U.K.*

Born : 13.2.1991 / Thessaloniki, Greece

Email : [iassael@gmail.com](mailto:iassael@gmail.com)

Website : <http://www.yannisassael.com>

## 2 Education

Present : **DPhil in Machine Learning,**  
Oct 2015 *University of Oxford, Oxford, U.K.*  
Supervisor: Nando de Freitas, Shimon Whiteson  
- Oxford – Google DeepMind Graduate Scholarship

Sep 2015 : **MRes in Machine Learning (Distinction, 81.8%, 2nd best overall performance)**  
Oct 2014 *Imperial College London, U.K.*  
Supervisor: Marc P. Deisenroth  
- HiPEDS Scholarship (EPSRC)

Oct 2014 : **MSc in Computer Science (Distinction, 83.5%, best overall performance)**  
Oct 2013 *University of Oxford, Oxford, U.K.*  
Supervisor: Nando de Freitas  
- Tony Hoare Prize for best overall performance in the MSc in Computer Science 2014  
- Hellenic State Scholarships Foundation

Apr 2013 : **Diploma of Applied Informatics [4-Years] (83.7%)**  
Sep 2008 *University of Macedonia, Thessaloniki, Greece*  
Supervisor: Konstantinos G. Margaritis

Aug 2011 : **Security in IT Summer School [ECTS 7.5] (Distinction, A)**  
*Copenhagen University College of Engineering (IHK), Denmark*

Jun 2008 : **High School (17.8 / 20)**  
Sep 2002 *American College Anatolia, Thessaloniki, Greece*

## 3 Information Technology knowledge

Languages : C, C++, Fortran, Java, JavaScript, PHP, Lua, Python, R, SQL, Visual Basic, Visual C#

Machine Learning : Torch7, TensorFlow, Theano

HPC : CUDA, OpenCL, MPI

Maths : Matlab, Mathematica, Finite Elements FiPy Python Library

Mobile : Android and iOS development,  
Appcelerator Titanium, PhoneGap Framework, jQuery Mobile

3D Design : Blender, Autodesk 3D Studio Max

Graphics : Adobe Photoshop, Adobe Illustrator

Audio : Steinberg's Cubase, Ableton Live

Multimedia : Final Cut Pro, Adobe Flash, Articulate Storyline

Web : Web Development (PHP, JS, SQL) and Web Design

## 4 Work Experience

- Present : **Deep Blue Labs Ltd.**, Director, artificial intelligence and machine learning consulting.  
Jul 2015 [www.deepbluelabs.co.uk](http://www.deepbluelabs.co.uk)
- Present : **AccuInstruments**, Chief Technical Officer, using Machine Learning to improve accuracy and performance of scientific measurement instruments. [www.accuinstruments.com](http://www.accuinstruments.com)  
Dec 2014
- Jul 2016 : **Legend 3D Inc.**, Machine learning consulting for virtual reality, 3D visual effects and conversion company. [www.legend3d.com](http://www.legend3d.com)  
Feb 2016
- Nov 2014 : **Ocado.com**, Cyber Security Consultant. [www.ocado.com](http://www.ocado.com)
- Dec 2014 : **Tessera Multimedia S.A.**, Lead Developer on Finite Elements Design and Analysis, developing software to simulate heat conduction of fluids and solids. [www.tessera.gr](http://www.tessera.gr)  
Jan 2013
- Aug 2013 : **PinApps.com Mobile Applications Development**, Senior Mobile Developer. [www.pinapps.com](http://www.pinapps.com)  
Oct 2011
- Jun 2011 : **Flooxi.com**, Senior Software Engineer at Flooxi.com online quiz platform. [www.flooxi.com](http://www.flooxi.com)  
Oct 2010
- Present : **yannisassael.com**, personal company undertaking freelance projects. [www.yannisassael.com](http://www.yannisassael.com)  
2007

## 5 Scholarships

- 5.1 **Oxford - Google DeepMind Graduate Scholarship** full scholarship for DPhil in Machine Learning, 2015 - 2018.
- 5.2 **Imperial College London** full scholarship for MRes program of “HiPEDS”, 2014-2015.
- 5.3 **Hellenic State Scholarships Foundation** full scholarship for MSc in University of Oxford, 2013-2014.
- 5.4 **Advanced Training in Open Source Multimedia Instruments**, Blender 3D Design, European Union Media Program Scholarship, Oct. 26 - 1 Nov., 2011 - Sofia, Bulgaria
- 5.5 **Training in Open Source Multimedia Instruments**, Blender 3D Design, European Union Media Program Scholarship, Aug. 16-21, 2010 - Sofia, Bulgaria.

## 6 Honors & Awards

- 6.1 Distinction in MRes in Machine Learning, Imperial College London, 2015.
- 6.2 Tony Hoare Prize for “Best overall performance in the MSc in Computer Science”, University of Oxford, 2014.
- 6.3 Distinction in MSc in Computer Science, University of Oxford, 2014.
- 6.4 1st place out of 77 teams, in the University of Oxford: Machine Learning Competition, Michaelmas 2013. <http://goo.gl/ePvgjo>
- 6.5 1st place in the first challenge of the 7th Global Management Competition, Management Simulation in which each team runs a company, with the objective of getting the highest company share price on the simulated stock exchange, 2012.
- 6.6 Distinction in Security in IT, Summer School of Copenhagen University College of Engineering (IHK), Copenhagen, Denmark, 2011.
- 6.7 3rd place in the HTC “Grand” Competition, a competition for Google Android developers, under the “airquality.gr” application, 2010.

## 7 Patents

- 7.1 Y. M Assael, B. Shillingford, S. Whiteson, N. de Freitas, “LipNet: Sentence-level lipreading.”, 4 Nov. 2016, Patent Application No. 20160100573, Greece.

## 8 Published Work

- 8.1 Y. M. Assael, B. Shillingford, S. Whiteson, N. de Freitas, "LipNet: End-to-End Sentence-level lipreading.", arXiv preprint arXiv, 2016.
- 8.2 H. Mossalam, Y. M. Assael, D. M. Roijers, S. Whiteson, "Multi-Objective Deep Reinforcement Learning", NIPS Deep Reinforcement Learning workshop, 2016.
- 8.3 J. N. Foerster, Y. M. Assael, N. de Freitas, S. Whiteson, "Learning to Communicate with Deep Multi-Agent Reinforcement Learning", NIPS, 2016.
- 8.4 J. N. Foerster, Y. M. Assael, N. de Freitas, S. Whiteson, "Learning to Communicate to Solve Riddles with Deep Distributed Recurrent Q-Networks", Deep Reinforcement Learning Workshop, IJCAI, 2016.
- 8.5 Y. M. Assael, N. Wahlström, T. Schön, M. P. Deisenroth, "Data-Efficient Learning of Feedback Policies from Image Pixels using Deep Dynamical Models", NIPS Deep Reinforcement Learning Workshop, NIPS, Montreal, 2015.
- 8.6 Y. M. Assael, Z. Wang, N. de Freitas, "Heteroscedastic Treed Bayesian Optimisation", NIPS Workshop on Bayesian Optimisation, NIPS, Montreal, 2014.
- 8.7 C. S. Kouzinopoulos, Y. M. Assael, T. K. Pyrgiotis, K. G. Margaritis, "A Hybrid Parallel Implementation of the Aho-Corasick and Wu-Manber Algorithms Using NVIDIA CUDA and MPI Evaluated on a Biological Sequence Database", International Journal on Artificial Intelligence Tools, Vol. 24, No. 1, 2015.
- 8.8 M. J. Assael, K. D. Antoniadis, I. N. Metaxa, S. K. Mylona, G. Matziaroglou, V. Efopoulos, Y. M. Assael, K. Marini, J. Wu, M. Hu, "A novel portable absolute two-wires Transient Hot-Wire instrument for the measurement of the thermal conductivity of solids", Proc. 20th European Conference on Thermophysical Properties, Porto, Portugal, Aug. 31 - Sep. 4, 2014.
- 8.9 M.J. Assael, Y. M. Assael, M. L. Huber, R. A. Perkins, Y. Takata "Correlation of the Thermal Conductivity of Normal and Parahydrogen from the Triple Point to 1000 K and up to 100 MPa", J. Phys. Chem. Ref. Data, Vol. 40, No. 3, 2011.
- 8.10 M.J. Assael, K.E. Kakosimos, K.D. Antoniadis, Y. M. Assael, "Applying Thermal Comfort Indices to Investigate Aspects of the Climate Change in Greece", Int. Rev. Chem. Eng. (I.RE.CH.E.) 2:204-209, 2010.
- 8.11 M.J. Assael, K.E. Kakosimos, A. Alexandridis, Y. M. Assael, "Study and Application of Discomfort Indices in Greece", Proceedings 7th National Scientific Chemical Engineering Conference, Patra, Greece, Jun. 3-5, 2009.
- 8.12 M.J. Assael, Y. M. Assael, K. Kakosimos, "Discomfort Indices - [www.airquality.gr](http://www.airquality.gr)", Technographima (Journal of the Technical Chamber of Greece) 362:12-13, 2008.

## 9 Reviewer in Scientific Publications

- 9.1 International Conference on Machine Learning (ICML), 1 article, since Mar. 2016.
  - 9.2 International Conference on Intelligent Robots and Systems (iROS), 2 articles, since Apr. 2016.
  - 9.3 Association for the Advancement of Artificial Intelligence (AAAI), 1 article, since Oct. 2015.
  - 9.4 Neural Information Processing Systems (NIPS), Bayesian Optimization Workshop, 6 articles, since Oct. 2015.
  - 9.5 International Journal of Thermophysics, *Springer*, 5 articles, since Sep. 2015.
  - 9.6 International Journal of Energy Sector, *Emerald Group Publishing*, 1 article, since Dec. 2014.
  - 9.7 Journal of Multi-Criteria Decision Analysis, *John Wiley & Sons, Ltd.*, 1 article, since Apr. 2014.
- Total reviews: 17

## 10 Reviewer in Scientific Projects

- 10.1 Financial support to technical-scientific research projects, Technology Foundation STW, Sep. 2016.

## 11 Invited Lectures

- 11.1 “Studing Computer Science at Oxford” - *Oxford Study Programme*, Summit Education Enterprise, Merton College, Oxford, UK, 2017/2/5.
- 11.2 “Machine Learning: Keep calm and lower your learning rate” – *Graduate Open Day*, Department of computer science, University of Oxford, UK, 5 Nov. 2016.
- 11.3 “Deep Learning using Torch”, IT training sessions for exceptional students, *Safemarket Ltd.*, Thessaloniki, Greece, 7 Jan. 2016.
- 11.4 “Are you M.A.D. enough for the market? (Mobile Application Development)”, Money Show 2013, *Applied Informatics in an environment of technology, knowledge, entrepreneurship & innovation*, Hyatt Regency, Thessaloniki, Greece, 13 Apr. 2013.
- 11.5 “I want to study abroad!”, Career Office, University of Macedonia, Thessaloniki, Greece, 9-10 Apr. 2013.
- 11.6 “Mobile Application Development”, “*Mobile*” Career - *Employment outlook in the area of Mobile Computing*, Department of Technology Management, University of Macedonia, Naousa, Greece, 20 Mar. 2013.

## 12 Project Portfolio

(See details in Appendix)

12.1	Mobile Applications:	17
12.2	Desktop Solutions:	4
12.3	Web Development:	25
12.4	Multimedia:	6
12.5	Community Dev. & Admin.:	2
	<b>Total</b>	<b>54</b>

## 13 Languages

Greek *Native*

English *Excellent*

German *Basic*

## 14 Interests

### 14.1 Scientific Interests

- Deep Reinforcement Learning, Deep Learning, Bayesian Neural Networks
- Algorithmic trading (Betfair Verified Software Vendor)
- Machine learning for engineering purposes (FEM, Fluid Dynamics)

### 14.2 Other Interests

- Group leader in YMCA Summer Camp in Pelion, Greece (2007 - 2013)
- Bass Guitar player in musicals and bands, and DJ at rock bars
- Photography