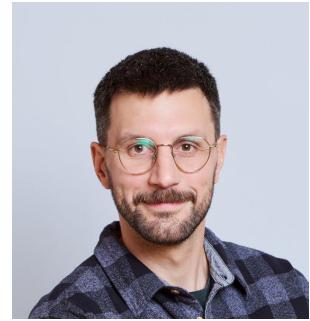


# Christos Melidis, PhD

## AI & Machine Learning

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I'm a Machine Learning Scientist with over a decade of experience in AI, specializing in Conversational AI, including Speech, Natural Language Processing and Generation. With a PhD in Computer Science, focused on innovative Neural Network architectures for Robotics, I excel at transforming cutting-edge research into practical, real-world applications.

My role often bridges research and production, guiding projects from idea to deployment. This involves everything from initial concept development and requirements gathering with Product teams, to hands-on coding with Engineering teams. Driven by a passion for innovation and a commitment to excellence, I strive to stay at the leading edge of Generative and Conversational AI, delivering solutions that make a difference.

**Programming Technologies:**  
pyTorch, TensorFlow,  
Theano, Keras

**Programming Languages:**  
C, C++, Java, Matlab, PHP

**Scripting languages:**  
Python, JavaScript  
(+jQuery), ActionScript,  
Bash script

**Mark-up languages:**  
HTML, XML, LaTeX

**Query Languages:**  
SQL, noSQL

**Operating Systems:**  
GNU/Linux, Windows

## Experience

### Ada Support LTD / Staff Machine Learning Scientist - R&D

[<https://www.ada.cx/>]

Feb 2024 - Present, Toronto [Remote]

Leading Generative AI efforts through Applied Research. Work resulted in 3 patents related to Conversational AI technologies. Worked end to end on conception, design and implementation (a) Agent-based Conversation Modelling (b) Testing Methodologies & Performance Evaluation (c) AI Explainability methods (d) Design and Development of novel Knowledge Management methods.

LLMs, Natural Language Processing, Generative AI. | Python, PyTorch,

### Ada Support LTD / Sr. Machine Learning Scientist - R&D

[<https://www.ada.cx/>]

August 2021 - Feb 2024, Toronto [Remote]

Leading Generative AI efforts through Applied Research. Work resulted in 3 patents related to Conversational AI technologies. Worked end to end on conception, design and implementation Automated Training Questions creation, Automated Chatbot Creation, Ada's Hybrid Chatbot solution, Ada's Generative Chatbot solution, Ada's Personalized Generative Chatbot solution, Fine-tuning LLMs.

LLMs, Natural Language Processing, Generative AI. | Python, PyTorch

### Omilia LTD / Sr. Machine Learning Specialist - R&D

[<https://omilia.com/>]

February 2020 - August 2021, Athens [Remote]

Designing and implementing novel **Machine Learning models** applied to **Voice Biometrics, Automated Speech Recognition, Natural Language Processing**. Also, involved in serving as well as maintaining the models. **Deep Neural Networks, Probabilistic Neural Models, Natural Language Processing, Voice Biometrics, Diarization.** | **Python, C++, PyTorch, Tensorflow**

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### Curation Zone LTD / Data Scientist

[<https://www.curationzone.com/>]

April 2019 - February 2020, London [Remote]

Working on **AI technologies** to identify the World's best filmmakers. **Deep Neural Networks, Natural Language Processing, Scoring and Data Management.** | **Python, BERT, ELMO, LSTMs, TensorFlow, RESTful API, MongoDB**

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### Stellanovus LTD / Lead AI Developer

[<https://www.stellanovus.com/>]

October 2018 - April 2019, Republic of Ireland [Remote]

Working on a **digital marketing platform** [<http://www.ainu.ai/>], using **Deep Neural Networks, Natural Language Processing.** | **Python, LSTMs, TensorFlow, RESTful API**

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### i-DAT / AI & Machine Learning Scientist

[<http://i-dat.org/>]

September 2017 - September 2018, UK [Remote]

Working on a **chatbot** engine with text comprehension, using **Neural Networks, Natural Language Processing.** | **Python, LSTMs, Keras, DialogFlow, Rasa**

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### University of Naples, Federico II / Research Scientist

[<http://www.nac.unina.it/nac/>]

June 2017 - September 2017, ITALY

Researcher Position under the supervision of prof. Davide Marocco. Working on a **Generative Adversarial Architecture** based on Echo State Networks, with applications to music generation. | **Python, LSTMs, Echo State Networks, Theano**

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### Plymouth University / Research Assistant

2015-2017, UK

**2 Projects** | Research and Development of Neural Architectures for (a) Sentiment Analysis in Tweets and Natural Language Processing (b) Explanation of Functional Disorders | **Python, Tensorflow, RNNs**

**3 Laboratories** | Teaching MSc students "Robotics and Control", BSc students "Cross-platform application development in C++" and ""Parallel and Distributed Programming" | **CUDA, C, C++, Industrial Robotics**

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### VisualPulp / Web App Developer

Nov 2013 - Feb 2014, GREECE

Worked in the implementation of the **Front and Back end** of a scratch (game) engine for an online casino. My contribution to the project was spread across all the levels of implementation, **game-logic, game engine, interface and graphical environment**, and, last but not least, in the **security** aspects of the information exchange. | **Javascript, Angular, MongoDB, Bootstrap**

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## Education

**University of Plymouth** / Philosophical Doctorate in Computer Science, Artificial Intelligence and Robotics

2014 - 2017, UK

Thesis titled "*Adaptive Neural Architectures For Intuitive Robot Control*"

Thesis online, <https://pearl.plymouth.ac.uk/handle/10026.1/9998>

Project Page, <https://www.cognovo.eu/project-25>

**Aristotle University of Thessaloniki** / BSc in Informatics

2008- 2013, GREECE

Degree in Informatics with a speciality in Information Systems, Expert Systems, Database Management Systems, Grid Computing, Information Retrieval.

Thesis titled "*Reinforcement Learning in Robotics*"

Thesis online, <http://ikee.lib.auth.gr/record/132731/?ln=en>

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## International Publications

- Melidis, C., & Marocco, D. (2019). **Effective Behavioural Dynamic Coupling through Echo State Networks**. *Applied Sciences*, 9(7), 1300.
- Melidis, C., Denham, S. L., & Hyland, M. E. (2017). **A test of the adaptive network explanation of functional disorders using a machine learning analysis of symptoms**. *Biosystems*.
- Melidis, C., Iizuka, H. & Marocco, D., "Intuitive control of mobile robots: an architecture for autonomous adaptive dynamic behaviour integration", *Cognitive Processing*, Springer, (2017). doi:10.1007/s10339-017-0818-5
- C. Melidis and D. Marocco, "KURE: Kinematic universal remote interface a human centred remote robot control paradigm," 2016 IEEE International Conference on Systems, Man, and Cybernetics (SMC), Budapest, 2016, pp. 003130-003135.
- C. Melidis and D. Marocco, "KURE: a Two-Way Adaptive System for Intuitive Robot Control", 2016, Workshop on Behavior Adaptation, Interaction and Learning for Assistive Robotics, IEEE RO-MAN 2016, NYC, USA
- C. Melidis and D. Marocco, "A Human Centric Approach to Robotic Control", 2015 IEEE International Conference on Systems, Man, and Cybernetics, Kowloon, 2015, pp. 2441-2446. Doi: 10.1109/SMC.2015.427
- Melidis C., Marocco D. (2015) **An Exploration on Intuitive Interfaces for Robot Control Based on Self Organisation**. In: Headleand C., Teahan W., Ap Cenydd L. (eds) *Artificial Life and Intelligent Agents*. ALIA 2014. Communications in Computer and Information Science, vol 519. Springer, Cham

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## Patents

- [Systems and methods for generating a chatbot](#)  
US [US11676044B1](#) Arnon Mazza, Christos Melidis Ada Support Inc.  
Priority 2022-08-16 • Filed 2022-08-16 • Granted 2023-06-13 • Published 2023-06-13

- [Systems and methods for generating automatic training suggestions](#)  
[US 20230297887A1](#) Armand Silviu Gurgu, Christos Melidis Ada Support Inc.  
Filed 2022-12-15 • Published 2023-09-21

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## Conference Presentations

- "KURE: Kinematic universal remote interface a human centred remote robot control paradigm," 2016 **IEEE International Conference on Systems, Man, and Cybernetics (SMC)**, Budapest, Hungary
- "KURE: a Two-Way Adaptive System for Intuitive Robot Control", 2016, Workshop on Behavior Adaptation, Interaction and Learning for Assistive Robotics, **IEEE RO-MAN 2016**, NYC, USA
- "A Human Centric Approach to Robotic Control," 2015 **IEEE International Conference on Systems, Man, and Cybernetics**, Kowloon, Hong Kong
- An Exploration on Intuitive Interfaces for Robot Control Based on Self Organisation. **Artificial Life and Intelligent Agents. ALIA 2014**. Bangor, Wales, UK

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## Volunteer Work

Active Member of **Google Developers Group Thessaloniki**

Organiser of,

"**Collaboratoire**", Summer School  
[<https://www.cognovo.eu/events/collaboratoire.php>]

"**Build your own AI**", Meetup series

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**6 University Projects | [LinkedIn](#)**

**7 International Publications | [ResearchGate](#)**

**3 Organisations visited | [LinkedIn](#)**

**3 Languages | Greek, English, German**