

PERSONAL INFORMATION

Gioel Asuni

📍 via Del Brennero 6A, 56123 Pisa (Italy)

☎ 3291639937

✉ gioel.a@gmail.com

🌐 www.igioel.com

Sex Male | Date of birth 15/02/1971 | Nationality Italian

PREFERRED JOB

Data Scientist

WORK EXPERIENCE

01/09/2002–31/03/2006

Research and development department manager

Scuola Superiore Sant'Anna, Pisa (Italy)

During my Ph.D. I was involved in several European community projects and author of many educational publications presented in international conferences.

In particular I was involved, as team leader, on a project with the TOYOTA MOTOR ENGINEERING & MANUFACTURING EUROPE:

the objective of ExPer project was to achieve efficient visuo-motor coordination in real-world environment by applying the Expected Perception (EP) based strategy.

The anthropomorphic robotic system used was very complex to not allow a classical solution. The goal was achieved by using a set of neural networks that, through a training phase, learned the complex functions needed to solve the various tasks.

In addition, I held some lessons on neural networks during the course of robotics perception at the University of Pisa and a seminary at the University of Genova.

01/04/2006–Present

IT Consultant

Gioel Asuni, Pisa (Italy)

- Data scientist
- Apple developer
- DB developer
- Web developer
- Android developer
- IoT developer

- Programming languages: C, C++, C#, Objective-C, Swift, Prolog, Lisp, Caml, ML, XML, XSLT, SQL, JavaScript, HTML, CSS, PHP, Python, R, Java etc.

- Technologies: Python data science stack (Jupyter Notebook, NumPy, Pandas, Scikit-Learn, Keras, Theano, TensorFlow)

- Tools: Anaconda, Spyder, rCanopy, Orange, R studio, Xcode, Android Studio, Visual Studio, Office

Excellent computer skills on Artificial Intelligence, Knowledge-based Systems, Machine Learning, Neural Networks, Fuzzy Systems, Reinforcement Learning, Genetic Algorithms.

EDUCATION AND TRAINING

01/01/1992–19/06/2002

MSc, Computer Science

University of Pisa, Pisa (Italy)

Double Major: Computational Intelligence and Knowledge-based Systems

Thesis Title: "A neuro-controller for robotic manipulators based on biologically-inspired visuomotor coordination neural models"

01/01/2003–31/12/2006

PhD, Bioengineering, Materials Engineering and Robotics

University of Genova, Genova (Italy)

Dissertation Title: "Bio-Inspired Neural Sensory-Motor Coordination Schemes For Robot Reaching, Preshaping and Grasping."

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	A2	A2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills

- consulting staff from different parts of a client's organisation
- analysing an organisation's data
- determining information system requirements and defining project objectives
- making recommendations, such as suggesting appropriate software and systems
- designing, installing and trialling new systems and software, and fixing any issues that arise
- writing reports and documentation

Job-related skills

I've passion for Machine Learning and Data Science.

I enjoy work on complex data analysis, data mining, machine learning and big data tasks.

To deepen my data science skills, I keep learning new tools and taking online courses in particular about on Deep Learning.

- Meticulous approach to work
- Attention to detail
- Capable of meeting high standards
- Good problem-solving skills
- Analytical and technical skills
- Effective time management skills to meet deadlines

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

Driving licence A, B

ADDITIONAL INFORMATION

- Publications** **Book chapter:** *Chapter 26. Neurocontroller for Robot Arms Based on Biologically Inspired Visuomotor Coordination Neural Models*
- Book: Handbook of neural engineering / edited by Metin Akay. Wiley. Handbook of neural engineering
- References** Gioel Asuni - Inventor: **Japan Patent 2007-245326**
Konosu Hitoshi, Ota Yasuhiro, Paolo Dario, Cecilia Laschi, Eugenio Guglielmelli, Zbigniew Wasik, Edoardo Datteri, Gioel Asuni, Maria Chiara Carrozza, Giancarlo Teti: *Robot, and robot control method*. Toyota Motor September 2007
- Seminars** <http://www.lira.dist.unige.it/limbs/abstracts/asuni+urbanek.htm>
- Conferences** Cecilia Laschi, Gioel Asuni, Eugenio Guglielmelli, Giancarlo Teti, Roland S. Johansson, Hitoshi Konosu, Zbigniew Wasik, Maria Chiara Carrozza, Paolo Dario:
A bio-inspired predictive sensory-motor coordination scheme for robot reaching and preshaping. Auton. Robots 25(1-2): 85-101 (2008)
- Conferences** Gioel Asuni, Giancarlo Teti, Cecilia Laschi, Eugenio Guglielmelli, Paolo Dario:
Extension to End-effector Position and Orientation Control of a Learning-based Neurocontroller for a Humanoid Arm. IROS 2006: 4151-4156
- Conferences** ■ Gioel Asuni, Giancarlo Teti, Cecilia Laschi, Eugenio Guglielmelli, Paolo Dario: ICRA 2005: 2362-2367
- Conferences** ■ Edoardo Datteri, Gioel Asuni, Giancarlo Teti, Cecilia Laschi, Paolo Dario, Eugenio Guglielmelli: IROS 2004: 1311-131