



## Personal information

Surname(s) / First name(s)

Address(es)

Email(s)

Nationality(-ies)

Date of birth

Gender

**Vitale, Vincenzo Norman**

Via Claudio, 2180125 Napoli (NA), Italy

vnvitale@gmail.com, vincenzonorman.vitale@unina.it

Italian

30 August 1989

Male

## Positions

Date

Position

Institution

October 2023 - Now

Assistant Professor

Department of Electrical Engineering and Information Technology, DIETI, University of Naples Federico II

Founded by RESTART consortium

Date

Position

Institution

October 2022 - September 2023

Post-Doc Researcher

Interdepartmental Research Center "Urban/Eco", University of Naples "Federico II"

This is a project with corporate interests, whose activities concern research and development related to the use in the industrial field of 'End to End' speech recognition models based on neural networks. In particular, the activities will concern the training and the evaluation of the aforementioned models, with particular attention to aspects concerning both the explainability and the interpretability of these models.

Supervisor: Professor Francesco Cutugno, Urban/Eco Executive Director

Granted by: Cedat 85 s.r.l

Date

Freelance

2015 –

Freelance in the IT sector

Date

Position

Institution

July 2022 - October 2022

Project Manager

5G Academy, University of Naples "Federico II"

The role fell within the Lister project, concerning creating a translation system from spoken to sign language. The responsibilities included a small part concerning purely managerial aspects like contact with companies or resource management. On the other hand, most of the commitments were on aspects inherent to the design and development of the models and pipelines that constitutes the project itself.

Supervisor: Professor Antonia Maria Tulino, DIETI, University of Naples "Federico II"

Date

Position

Description

July 2021

Reviewer

Scientific papers reviewer for "Frontiers in Artificial Intelligence" publishing company.

Date

Position

Description

August 2020

Reviewer

Scientific papers reviewer for "Hindawi" publishing company.

Date	March 2020
Position	Lecturer
Description	Introduction to Microservices and Docker architectures. Introduction to Microservices and Docker architectures, held during the Software Engineering II course, master's degree course in Computer Science at the University of Naples "Federico II" Supervisor: Professor Sergio Di Martino, DIETI, University of Naples "Federico II"
Date	February 2020 - June 2020
Role	Term-contract Worker
Description	Support for the development and validation of the components integrated into the PI-COMIOT platform. At the Regional Center for Information Communication Technology - CeRICT srl Supervisor: Professor Valentina Casola, DIETI, University of Naples "Federico II"
Date	January 2020
Position	Reviewer
Description	Scientific papers reviewer for the "Web and Wireless Geographical Information Systems conference" (W2GIS) 2020.
Date	December 2019
Role	Lecturer
Description	Introduction to Android development. During the Software Engineering I class, CDL in Informatica presso University of Naples "Federico II" Supervisor: Professor Sergio Di Martino, DIETI, University of Naples "Federico II"
Date	June 2019
Role	Member of local organizing committee. WETICE 2019 (28th IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises)
Date	May 2019
Position	Lecturer
	Introduzione ai Time Series Management Systems. Durante il corso di Basi di Dati II, CDL magistrale in Informatica presso University of Naples "Federico II" Supervisor: Professor Adriano Peron, DIETI, University of Naples "Federico II"
Date	May 2019
Position	Lecturer
Description	Introduction to Microservices architectures for web development. During the Web Technologies II course, Bachelor Degree in Computer Science at the University of Naples "Federico II" Supervisor: Professor Anna Corazza, DIETI, University of Naples "Federico II"
Date	May 2019
Position	Lecturer
Progetto	Introduction to Microservices and Docker architectures. During the Software Engineering II course, Master's Degree in Computer Science at the University of Naples "Federico II" Supervisor: Professor Sergio Di Martino, DIETI, University of Naples "Federico II"
Date	25 March 2019 – 29 March 2019
Role	Lecturer
Description	"Database Analytics" module at "FS Mobility Academy"

Supervisor: Professor Gennaro Nicola Bifulco, DICEA, University of Naples "Federico II"

Date February 2018 – 2019

Role Software Engineer

Description Redesign and development of the "Caruso" Android application within the Research Project of National Interest "CHROME"

Supervisor: Professor Francesco Cutugno, DIETI, University of Naples "Federico II"

## Experience and Training

August 2022

Organization

Summer School: "Linguistics and speech technology: from theory to tools to theory"  
University of Salento

November 2018 – May 2022

Thesis

PhD in Computer Science obtained in the "ITEE - Information Technology and Electrical Engineering" doctoral course at DIETI - Department of Electrical Engineering and Information Technologies

Towards Cost-Performance Awareness in Fog-based Data Management Architectures

Supervisor

Professor Sergio Di Martino, DIETI, University of Naples "Federico II"

Organization

University of Naples "Federico II"

Granted by

AvioAero, a General Electric Aviation company

July 2020

Grade

English language certification

Listening and Reading: C1 - evaluation through Cambridge Placement Test

Speaking: B2 - evaluation through CLA examiner

Organization

CLA (Centro Linguistico di Ateneo) - University of Naples "Federico II"

June 2019

Organization

"14th International Summer School on Software Engineering"

University of Salerno

September 2015 – October  
2018

Grade

Master's degree in Computer Science, specialization in "Robotics and Advanced Cognitive Systems"

110/110 cum laude.

Thesis

A protocol to collect interactive museum experiences information

Supervisor

Professor Francesco Cutugno, DIETI

Organization

University of Naples "Federico II"

September 2010 – June 2015  
Grade

Bachelor's degree in Computer Science

99/110

Thesis

Implementation of a speech recognition system in Kaldi with support for out of vocabulary words

Supervisor

Professor Francesco Cutugno, DIETI

Organization

University of Naples "Federico II"

## Scientific Works

Date

2021

Description	Martino, S.D., Peron, A., Riccabone, A. and Vitale, V.N., 2021. Benchmarking management techniques for massive IIoT time series in a fog architecture. International Journal of Grid and Utility Computing, 12(2), pp.113-125.
Date	2020
Description	Di Martino, S. and Vitale, V.N., 2020, November. Massive Spatio-Temporal Mobility Data: An Empirical Experience on Data Management Techniques. In International Symposium on Web and Wireless Geographical Information Systems (pp. 41-54). Springer, Cham.
Date	2020
Description	Di Martino, S. and Vitale, V.N., 2020, September. An Haptic Interface for Industrial High-Precision Manufacturing Tasks. In Proceedings of the International Conference on Advanced Visual Interfaces (pp. 1-3).
Date	2020
Description	Vitale, V.N., Olivieri, M., Origlia, A., Pretto, N., Rodà, A. and Cutugno, F., 2020, July. Acoustic Experiences for Cultural Heritage Sites: A Pilot Experiment on Spontaneous Visitors' Interest. In International Conference on Human-Computer Interaction (pp. 300-311). Springer, Cham.
Date	2019
Description	Di Martino, S., Vitale, V.N. and Bock, F., 2019, June. Investigating the Influence of On-Street Parking Guidance Strategies on Urban Mobility. In 2019 6th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS) (pp. 1-6). IEEE.
Date	2019
Description	Di Martino, S., Vitale, V.N. and Bock, F., 2019, June. Comparing different on-street parking information for parking guidance and information systems. In 2019 IEEE Intelligent Vehicles Symposium (IV) (pp. 1093-1098). IEEE.
Date	2019
Description	Di Martino, S., Fiadone, L., Peron, A., Riccabone, A. and Vitale, V.N., 2019, June. Industrial internet of things: persistence for time series with NoSQL databases. In 2019 IEEE 28th International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE) (pp. 340-345). IEEE.

## Personal Skills and Competences

Mother tongue(s)

Other language(s)

*Self-assessment  
European level<sup>(\*)</sup>*

**Inglese**

### Italian

English

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	C1

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

## IT Skills and Competences

Areas of Expertise

Programming languages

Scripting Languages

Database technologies

Software Development

Methodologies

Frameworks

Other skills and tools

Research Interests

Human Computer Interaction (HCI), Natural Language Processing (NLP), Artificial Intelligence, Software Engineering, Industry 4.0

C, C++, Java

Bash, Python, R, Matlab, PHP, Javascript

PostgreSQL, Oracle, Mysql, Cassandra, Mongo, Timescale, InfluxDB, Redis

Waterfall, SCRUM, DevOps

Tensorflow, Pytorch, Pytorch-lightning, Nvidia Nemo toolkit, Android Framework, Docker

Docker, Microservices Architectures, Linux based OS (i.e., Fedora, Ubuntu, Debian), Robot Operating System (ROS)

Human Computer Interaction, Natural Language Processing, Robotics, Machine Learning, Computational Vision, eXplainable AI, Big Data, IoT, ITS, Industry 4.0

## Further Information

July 2022 - Milan (IT)

November 2020 - Wuhan (CN) -  
(Virtual)

Co-Author of

September-October 2020 -  
Isola di Ischia (IT)

Co-Author of

July 2020 - Copenhagen (DN) -  
(Virtual)

Co-Author of

June 2019 - Capri (IT)

Co-Author of

June 2019 - Krakow (PL)

Co-Author of

2022

Position

Student

Thesis

2019

Position

Student

Thesis

## Conferences and Conventions

CLIC 2021 (Eighth Italian Conference on Computational Linguistics)

W2GIS 2020 (Web and Wireless Geographical Information Systems)

Massive Spatio-Temporal Mobility Data: An Empirical Experience on Data Management Techniques

AVI 2020 (International Conference on Advanced Visual Interfaces)

An Haptic Interface for Industrial High-Precision Manufacturing Tasks

HCI International 2020 (22nd International Conference on Human-Computer Interaction)

Acoustic Experiences for Cultural Heritage Sites: A Pilot Experiment on Spontaneous Visitors' Interest

WETICE 2019 (28th IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises)

Industrial Internet of Things: Persistence for Time Series with NoSQL Databases

MT-ITS 2019 (6th International Conference on Models and Technologies for Intelligent Transportation Systems)

Investigating the Influence of On-Street Parking Guidance Strategies on Urban Mobility

## Prizes and Awards

Bachelor's degree special award in memory of Eng. Lucio Goglia, established by SADAS and University of Naples "Federico II"

Supervisor and Mentor

Giuseppe Liccardi

Handling Massive Spatio-Temporal in a Hybrid Cloud-Fog Context

Master's degree award in memory of Eng. Lucio Goglia, established by SADAS and University of Naples "Federico II"

Supervisor and Mentor

Luca Fiadone

Storage and retrieval of Time Series for Predictive Maintenance