

EMANUELE VIVOLI

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EDUCATION

- Ph.D. student** | *University of Florence (Florence, Italy) + CVC (Barcelona, Spain)* **Nov. 2022 – Ongoing**
- Won 2 scholarships as 1st place among students from Florence, Siena and Pisa for Ph.D.
 - Research on "Vision and Language", scene-text VQA, Hateful memes, and to define...
- Erasmus+ student** | *Faculdade de Ciencias e Tecnologia (Lisbon, Portugal)* **Sep. 2019 – Feb. 2020**
- Learned B2 Portuguese from zero in 6 months and completed 4 exams, each with a grade of 30/30
 - Led 3 teams of 2 to 4 people to develop projects for the exams (projects on GitHub)
- Master in Computer Engineering** | *University of Florence (Florence, Italy)* **Dec. 2018 – Jul. 2021**
- GPA: **29.375/30** - Final grade: **110/110 with honours**
 - Thesis on: "Semantic understanding of scientific papers"
- Bachelor in Computer Engineering** | *University of Florence (Florence, Italy)* **Sep. 2015 – Dec. 2018**
- top 5% graduates, GPA: **28.407/30** - Final grade: **110/110 with honours**
 - Thesis on: "Handwriting Recognition and Classification"

PUBLICATION

- MUST-VQA** | *ECCV - Workshop* **Oct. 2022**
- "MUST-VQA: Multilingual Scene-text VQA", **E. Vivoli**, A.F. Biten, R. Tito, A. Mafla, D. Karatzas, L. Bigorda
- Graph Neural Networks for Table Extraction** | *ICPR - Conference* **Jul. 2022**
- "GNNs and Representation Embedding for Table Extraction in PDF Documents", A. Gemelli, **E. Vivoli**, S. Marinai.

EXPERIENCE

- Research Fellow** | *University of Florence (Florence, Italy)* **Jul. 2022 – Ongoing**
- Won two years fellowship aiming at finding archeological sites and [unexploded anti-person mines](#) under the ground.
 - [Self navigating robot](#) and [holeographic radars](#) are involved.
- Intern student** | *Computer Vision Center, UAB (Barcelona, Spain)* **Mar. 2022 – Jul. 2022**
- Paper accepted at **ECCV2022** on [Multilingual Scene-text VQA](#)
 - Using framework MMF and Huggingface (pytorch), have re-implemented LaTr paper, built and trained multilingual models for VQA, as well as designed the experiments and wrote paper, all in 3 months.
- Research Fellow and TA** | *University of Florence (Florence, Italy)* **Aug. 2021 – Mar. 2022**
- Paper accepted at **ICPR2022** on [GNN for Table Extraction](#)
 - Speeded up paper code of x7.5 (data preprocessing and training) by refactoring and using Torch Tensors
 - During the scholarship, I passed Bar Exam for Engineering obtaining **Italian title of Engineer**.
- Full-stack Developer Freelancer** | *Multiple companies (Florence, Italy)* **Feb. 2020 - Dec. 2021**
- Developed 3 [Web applications](#) for [real-time data management](#) (i.e. doctor appointments and receipts)
 - Supported 80 doctors, 1500 patients each with low latency and real-time updates, in Angular2+ and GCP
- Intern student** | *Luleå Tekniska Universitet (Luleå, Sweden)* **Jun. 2019 – Aug. 2019**
- Found and fixed a bug in a paper code about [EEG Analysis for intent classification](#) which dropped accuracy from 80% to 64%.
 - Gave two workshops to 10+ Ph.D. students on "git and vscode for remote programming" and "web services with Angular2+"

LEADERSHIP / EXTRACURRICULAR

- Handyman** | *VW LT 28 Owner* **Jul. 2019 - Ongoing**
- I bought a "VW LT 28" (1982) and restored it from scratch without experiences.
 - In August 2021, I arrived in Sicily by road driving almost 4000 kilometres on my van. Big satisfaction.
- Agesci** | *Scout group Co-head* **Sep. 2020 - Oct. 2022**
- Co-head of a group formed by 30 children from 8 to 12 that meet every weekend doing activities together such as games or hiking. Since I was 8 to 19 I was in the same scout group.
- Onlus Merveilles de Dieu** | *Onlus Co-head* **Aug. 2016 - Mar. 2020**
- Raised an ONLUS for the village of Tokan, in Benin, after volunteering as Animator for a month.
 - Organized yearly events (dinners, merchants, etc.) raising > 1.5k euro/dinner for building post-school structures and pay teachers.
- Parish** | *Group Co-head* **Aug. 2013 - Aug. 2019**
- Volunteered as co-head of a Parish group with more than 25 children escaping monotony and hustle for a week.
 - Heading and managing preparation, week schedule, camp's topic, programming activities, games and writing screenplays on that theme for give the children a moral.

CERTIFICATIONS/AWARDS

- HACCP** | *passed* **Nov. 2022**
- You might wonder "why haccp?" "I'm a home brewer since 2020 and I want to sell my artisanal beers ... cheers"
- IELTS** | *6.5 - C1* **Jan. 2022**