

# Francesco Fuggitti

## EDUCATION

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- **Sapienza University** Rome, Italy  
*Ph.D. in Engineering in Computer Science; A+ average* Nov. 2019 – present
  - **In International Joint Cotutelle Agreement with York University (Toronto, ON)**
  - **Research topic:** Reasoning about Actions, Planning, and Learning in Autonomous Systems, Supervisors Prof. Giuseppe De Giacomo and Prof. Yves Lespérance.
- **York University** Toronto, Canada  
*Ph.D. in Electrical Engineering and Computer Science* Jan. 2019 – present
- **Sapienza University** Rome, Italy  
*Master of Science in Engineering in Computer Science (taught in English); 110/110 cum laude* Oct. 2016 – Oct. 2018
  - **Thesis:** LTL and Past LTL on Finite Traces for Planning and Declarative Process Mining, Supervisor Prof. Giuseppe De Giacomo.
- **Campus Bio-Medico University** Rome, Italy  
*Bachelor of Science in Industrial Engineering; 110/110* Oct. 2013 – Oct. 2016
  - **Thesis:** Design and Development of a Web Service Platform for Surveys Management, Supervisor Prof. Luca Vollero.
- **Convitto Nazionale “Vittorio Emanuele II” High School** Rome, Italy  
*High School Diploma, Scientific studies; 100/100* Sept. 2008 – Jul. 2013

## AWARDS

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- **Excellence Program** Mar. 2018 – Oct. 2018  
*Sapienza University*
  - Among top students of the academic year
  - Design, development and maintenance of LTL<sub>f</sub>2DFA website for Sapienza University (<http://l1f2dfa.diag.uniroma1.it>)
- **European Exhibition of Scientific Research** Sept. 2015  
*Trieste Next*
- **Excellence Cerimony** Mar. 2014  
*Convitto Nazionale “Vittorio Emanuele II” High School*
  - Best High School outcomes
- **“Amici del Convitto”** Mar. 2013  
*Convitto Nazionale “Vittorio Emanuele II” High School*
  - Best High School grades

## PROFESSIONAL AND VOLUNTEERING EXPERIENCES

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- **York University** Toronto, Canada  
*Teaching Assistant - EECS1022: Programming for Mobile Computing* Jan. 2020 – Apr. 2020
  - Programming scripts for automatically grading students lab tests and quizzes
- **York University** Toronto, Canada  
*Teaching Assistant - EECS2030: Advanced Object Oriented Programming* Sept. 2019 – Dec. 2019
  - Programming scripts for automatically grading students lab tests and quizzes
- **York University** Toronto, Canada  
*Teaching Assistant - EECS1022: Programming for Mobile Computing* May. 2019 – Aug. 2019
  - Programming scripts for automatically grading students lab tests and quizzes
- **York University** Toronto, Canada  
*Teaching Assistant - EECS2021: Computer Organization* May. 2019 – Aug. 2019

- Helping and marking students in lab sessions
- **York University** Toronto, Canada  
*Teaching Assistant - EECS1021: Object Oriented Programming from Sensors to Actuators* *Jan. 2019 – Apr. 2019*
  - Helping and marking students in lab sessions
  - Programming scripts for automatically grading students tests and quizzes
- **Campus Bio-Medico** Rome, Italy  
*Computer Lab Assistant* *Feb. 2016 – Oct. 2016*
  - Part-time collaboration fully funded by Campus Bio-Medico University
  - Provide student support and customer service
  - Be present, visible, and available to students requiring technical assistance
  - Support faculty and students to use computer software and hardware
- **Opera Don Guanella** Rome, Italy  
*Volunteer* *Apr. 2016 – Oct. 2016*
  - Provide support to patients who have a life-threatening condition
  - Provide meals
  - Provide simple comfort measures for a patient
- **Ospedale Santo Stefano** Porto Potenza Picena, Italy  
*Volunteer* *Aug. 2014 and Aug. 2015*
  - Provide companionship and support to life-threatened patients
  - Transport patients to all areas within the hospital

## LANGUAGE SKILLS

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- **Italian:** Mothertongue
- **English:** Fluent (IELTS 7.5 - Nov. 2018)
- **French:** Basic

## TECHNICAL AND PROGRAMMING SKILLS

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- **Programming Languages:** Python, Javascript, C++, Swift, PHP, Matlab, Java
- **Declarative Programming Languages:** Prolog, PDDL, ASP
- **Style Sheet and Markup Languages:** XML, HTML5, CSS3
- **Distributed and Parallel Programming:** MapReduce
- **Software Design:** UML, Pattern MVC
- **Databases:** MySQL, SQL Lite
- **Ontology Model:** RDF, OWL
- **Technologies:** Hadoop, Ajax, jQuery, Flask, JSON, Docker
- **Typesetting Systems:** L<sup>A</sup>T<sub>E</sub>X, Office
- **Computer Systems:** macOS, Linux, Windows

## MAIN PROJECTS

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- **LTL<sub>f</sub>2DFA:** Directly converts both LTL<sub>f</sub> and PLTL formulas to their corresponding DFA
- **FOND4LTL<sub>f</sub>/PLTL:** FOND planning for extended LTL<sub>f</sub> and PLTL goals
- **Janus:** A proof-of-concept algorithm for discovering declarative process models out of event logs
- **Dotpy:** Python library for parsing and modifying Graphviz *.dot* files
- **EasyCurrencyApp:** iOS app for real-time currency exchange rates and wallet management
- **EasyCurrencyWeb:** Client-side web interface for real-time currency exchange rates, plots and wallet management
- **SurveyWS:** Web Service for surveys collection and management
- **FLA:** Static and dynamic analysis of a crank-rocker four-bar linkage

## PUBLICATIONS

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- De Giacomo, G.; Di Stasio, A.; **Fuggitti**, F.; Rubin, S.. Pure-Past Linear Temporal and Dynamic Logic on Finite Traces. In Proceedings of the Twenty-Ninth International Joint Conference on Artificial Intelligence (IJCAI), Survey Track, 2020. To appear.
- **Fuggitti**, F.. FOND Planning for  $LTL_f$  and  $PLTL_f$  CoRR, abs/2004.07027, arXiv, 2020.
- **Fuggitti**, F.. LTL and Past LTL on Finite Traces for Planning and Declarative Process Mining, MSc Thesis, Sapienza University. Roma, 2018.

## TALKS

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- Francesco Fuggitti. FOND Planning for  $LTL_f$  and  $PLTL_f$  Goals, Workshop on Reasoning about Actions and Processes: Highlights of Recent Advances, ICAPS. Berkeley, 2019.

## OTHER SKILLS

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- Professional swimmer, Forum S.C. (2008–2014)
- Domestic electrical systems, Network wiring and Configuration

June 16, 2020,

Sincerely,

(Francesco Fuggitti)