

# JULES PONSAILLÉ

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## Objective

To obtain a 6-month research internship in Computer Science

## Scientific interests

I am most interested in computer vision, general-purpose GPU programming and programming in general. I also developed a strong interest in problematics linked to earth and satellite imagery through my experience at the French Ministry of Ecology. Finally, I am reading a lot about web performances.

## Education and diplomas

- **ISEP** Paris, France  
*Graduate Software engineering studies* Sep. 2018 - Now
- **ISEP** Paris, France  
*Preparatory class (Math, Physics and Engineering)* Sep. 2016 - Aug. 2018
- **Lycée Janson de Sailly** Paris, France  
*High school diploma (major in science)* Aug. 2016

## Work Experience

- **French Ministry of Ecology** Paris, France  
*Intern at the research and innovation department for the GreenTech verte* Jul. 2019 - Dec. 2019
  - Worked with startups: Automated 3D maps generation for Ecodele, realized data analysis on currents and watermills to create a map for VH-Quatre-Vingt-Treize and realized an audit on Ealico's Website
  - Search for existing data on a project to detect all water retention with satellite imagery
  - Wrote an administrative note addressed directly to the interdepartmental delegate for sustainable development about the need of pesticides reduction and solutions based on computer science proposed by French startups
  - Was part of the pilot to create a center of innovation on Data, AI, Nudge and OpenInnovation (Ecolab) in the Ministry
  - Helped redesign communication tools for the GreenTech verte: automatized the generation of the startups' repertory, created an interactive map, ...
- **ISEP's IEEE Student Branch — Garage ISEP** Paris, France  
*Head of CoderLab (laboratory about algorithms and programming)* Jun. 2018- now
  - Co-created CoderLab
  - Helped add websites' accessibility to ISEP's curriculum
  - Democratized hackathons and algorithmics contests at ISEP by creating and leading two teams and designing algorithmic contests
  - Arranged sponsorships with Bearing Point, Thales, etc.

- Taught Javascript
- **Latitude Association** Paris, France  
*Ambassador at ISEP* *Nov. 2019 - now*
  - Promote Tech For Good projects
  - Organize conferences and workshops
  - Integrate social and environmental issues in the curriculum
- **Junior ISEP (IT Consultancy)** Paris, France  
*Consultant — Front-end developer in React.js and Vue.js* *June 2017 - July. 2018*

## Projects

- **Relativity4GPS** Paris, France  
*ISEP* *Mar. 2019 - Apr. 2019*
  - Simulation of the effects of relativity on the GNSS satellites or any other satellite of the earth.
  - Developed understanding on GNSS systems and algorithms
- **Creation of an automated babyfoot for training purposes** Paris, France  
*ISEP* *Sept. 2017 - Aug. 2018*
  - Created a custom color-tracking algorithm for the web based on WebGL
  - Developed skills in computer vision and electronics
- **Enigma and its cryptanalysis before Turing** Paris, France  
*ISEP* *Sept. 2017 - Aug. 2018*
  - Studied and demonstrated mathematical theorems from Rejewski's work
  - Modelled Enigma in Python and Javascript

## Skills

- **Programming Languages:** JavaScript, Python, MathLab/Octave, Java, HTML, CSS, PHP
- **GIS:** QGIS, GeoPandas
- **Electronics:** Arduino, Raspberry Pi
- **Publication:** LaTeX, Office, Photoshop, Illustrator, Davinci Resolve
- **Web Frameworks:** Node.js, React.js, React Native, Vue.js
- **Soft Skills:** Project Management, Organized, Adaptability to new environments (Lived 4 years in Belgium)

## Scientific activities

- Board of sustainable digital startups jury at the French Ministry of Ecology
- Attended the conference about introduction to program verification at ISEP organized by IEEE and Garage ISEP
- Attended the presentation of the "Report on the environment states" at the French ministry of ecology

- Attended the presentation day of the C3S service of Copernicus at the French ministry of ecology
- Attended to the "COLLOQUE SCIENTIFIQUE DE CENTRALESUPÉLEC of 2019" (Scientific conferences of CentraleSupélec) and represented IEEE France as a member of the IEEE Student Branch.

## Prizes

- Nuit de l'Info 2018: "Digital assistance of an explorer in extreme conditions" (In Team)
  - 1st place for FabSpace 2.0's challenge: "Usage of geospatial data"
  - 1st and 2nd places for Accenture's challenge: "Coop Mode"
- Nuit de l'Info 2017: "On the way to party" (In Team)
  - 1st place for Altran's challenge: "Du code à la sauce Google Docs"
  - 1st and 2nd places for DAHER's challenge: "VR l'infini et l'au delà !"

## Languages

- French (Mother Tongue)
- English (TOEIC: 975)
- Dutch (4 years in Belgium)
- Spanish (Scholar)
- Chinese (Beginner)

## Hobbies

- **Sports:** Tap Dance and Kite-surf
- **Algorithms Contests:** IEEEExtrem (287/4000 teams), BattleDev, ...
- **Hackathons:** Nuit de l'Info 2017 (2 prizes), Nuit de l'Info 2018 (2 prizes), Nuit du Code Citoyen, TechCrunch of Vivatech
- **Reading:** Science-fiction, Barjavel, Hunger Games, ...
- **Video Games:** P.C., FPS, Nintendo, ...

## Primary References

**Maria Trocan** IEEE France Vice-President responsible of Student Activities; Associate Professor, ISEP, [maria.trocan@isep.fr](mailto:maria.trocan@isep.fr)