

David Rei, Ph.D.

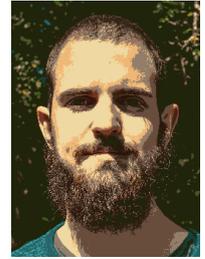
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Employment History

- Sep. 2019 – Aug. 2024
- 📌 **Ph.D. Student.** LISN, CNRS, Paris-Saclay University. Development of an Android app, 3 field studies, 1 online survey. PhD defended in March 2024.
 - 📌 **Assistant Lecturer.** Orsay Faculty of Sciences, Paris-Saclay University, Orsay, France. 473h. Lectures in databases, object oriented programming, web programming, software engineering, UML, HMI.
- Jan. 2019 – Aug. 2019
- 📌 **Research Engineer.** LISN, CNRS, Paris-Saclay University. State of the art in human-computer interactions, adaptive interactions, persuasive technologies, psychology (RFT, SDT, motivation).
- Feb. 2016 – Jul. 2017
- 📌 **Software Engineer.** EMA Hemodialyse, Aix-en-Provence. Development of "Active Directory" and "Transplantation" modules for Hemodialyse and "UWAP" project.

Education

- 2019 – 2024
- 📌 **Ph.D., Paris-Saclay University** in Computer Science.
Thesis title: *Human-Machine Interactions Adapted to the Personality of Users: Application of Motivation to Physical Activity.*
Supervisors: Professor Jean-Claude Martin, Associate Professors Brian Ravenet and Céline Clavel
- 2017 – 2018
- 📌 **Research M.Sc. Electrical Engineering, Paris-Saclay University** in Virtual Reality and Intelligent Systems.
Ranked 1st/24. Internship subject: *Adaptive difficulty model for post-stroke motor rehabilitation of the upper limb.*
- 2013 – 2016
- 📌 **Eng. Biomedical Engineering, Polytech Marseille.**
Biomedical engineer motto: *"From scanner to scalpel".*

Teachings

- 2023 – 2024  Object oriented programming - basics (L2 Computer Science - S3) - 48h
Databases 2 (L3 Computer Science - S6) - 12h
Databases 2 Miage (L3 Computer Science Miage - S6) - 12h
Web Programming (L3 Computer Science - S6) - 48h
Object oriented programming and software engineering (L3 Computer Science - S6) - 48h
UML (Polytech ET3 - S6) - 14h
Human-Machine Interaction (Polytech ET3 - S6) - 12h
- 2022 – 2023  Object oriented programming - basics (L2 Computer Science - S3) - 24h
Databases 2 (L3 Computer Science - S6) - 12h
Databases 2 Miage (L3 Computer Science Miage - S6) - 12h
Web Programming (L3 Computer Science - S6) - 48h
- 2021 – 2022  Advanced databases (DUT 2 - S3) - 18h
Object oriented programming - basics (BUT 1 - S2) - 42h
Project monitoring (BUT 1 - S2) - 6h: "Analysis and Quality"
- 2020 – 2021  Advanced databases (DUT 2 - S3) - 18h
Object oriented programming - basics (DUT 1 - S2) - 42h
- 2019 – 2020  Advanced databases (DUT2 - S3) - 36h
Object oriented programming - basics (DUT 1 - S2) - 21h

Research Publications

- 1 David Rei. "Interactions Humain-Machine Adaptées à la Personnalité des Utilisateurs: Application de Motivation à l'Activité Physique". PhD thesis. Université Paris-Saclay, 2024.  URL: <https://hal.science/tel-04538519/>.
- 2 David Rei. *PADME*. Version v57 and v77. June 2024.  URL: <https://hal.science/hal-04614660>.
- 3 David Rei, Jean-Claude Martin, and Céline Clavel. "Interactions Humain-Machine adaptées à la personnalité des utilisateurs". In: *Poster presented at Neuroscience et multimodalité dans les interactions humain-humain, humain-agent ou humain-robot*. Paris, France, 2019.  URL: <https://hal.science/hal-02161272>.
- 4 David Rei et al. "PADMEH: Personality-based Adaptive moDEL for Mobile E-Health". In: *Fourth HUMANIZE workshop on Transparency and Explainability in Adaptive Systems through User Modeling Grounded in Psychological Theory*. ACM. 2020.  URL: <https://hal.science/hal-03758777>.
- 5 David Rei et al. "Towards Personalised Virtual Coaching Based on Self-Determination Theory and Regulatory Focus Theory". In: *Oral presentation given at 10th European Conference on Positive Psychology (ECP2022)*. SENA. Reykjavik, Iceland, June 2022.  URL: <https://hal.science/hal-03758734>.
- 6 David Rei et al. "Intervention mobile pour la motivation à marcher: Impact de l'adaptation des objectifs et des messages motivationnels". In: *Colloque en TéléSANTé et dispositifs biomédicaux*. "Saint-Denis, France", 2023.  URL: <https://hal.science/hal-04220657>.

- 7 David Rei et al. "Adapting goals and motivational messages on smartphones for motivation to walk". In: *Smart Health* 32 (2024), p. 100482. ISSN: 2352-6483.  DOI: <https://doi.org/10.1016/j.smhl.2024.100482>.

Skills

- Languages  Reading, writing and speaking fluency for English (C1) and French (C2).
- Technical skills  Java (Android), HTML, CSS, PHP, JavaScript, Bootstrap framework, MySQL, PL/SQL, \LaTeX .
- Soft Skills  curiosity, open-mindedness, listening and communication, analytical and critical thinking, synthesis, decision-making, tenacity, perseverance, adaptability, integrity
- Software  Git/Gitlab, Android Studio, IntelliJ, VS Code, GDevelop (game engine), JASP (statistical analysis), Adobe XD, Balsamiq, diagrams.net/draw.io
- Misc.  Academic research, teaching, team management, \LaTeX typesetting and publishing, statistical analysis.

Miscellaneous Experience

Certification

- 2024  **Certified Emergency Response Officer**. Trained by Paris-Saclay University.

References

Available on Request