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"Bioinformatician with a PhD and hands-on experience in data integration, seeking to translate scientific insight into health and nutrition solutions"

SKILLS

- Data management
- Data analysis
- Problem solving
- Scientific writing and oral communication

SOFTWARE & PROGRAMMING

Office suite	Inkscape
Python	R
Bash	Java
Docker	Git
SQL	Neo4j
Nextflow	MEGA

LANGUAGES

- French (native)
- English (CEFR: C1)
- German (CEFR: A2)

INTERESTS

Music

- Diatonic accordion
- Piano (self-taught)

Sport

- Hiking
- Badminton
- Ski (alpine/cross-country)

Baptiste Imbert

Bioinformatics research engineer

WORK EXPERIENCE

- **01/2021 – 02/2025 | INRAE / Dijon, FRANCE**
 - Research engineer** (01/2025 - 02/2025)
ECP team (supervisor: Nadim Tayeh)
 - Trained the engineer recruited to develop the OrthoLegKB database
 - PhD student** (10/2021 - 12/2024)
ECP team (supervisor: Nadim Tayeh)
 - Developed and operated the OrthoLegKB database
 - Harmonised large sets of data before integration, through the use of ontologies
 - Designed and delivered trainings in the use of OrthoLegKB
 - Supervised an intern in the design of a bioinformatics pipeline
 - Intern** (01/2021 - 07/2021)
ECP team (supervisors: Nadim Tayeh and Jonathan Kreplak)
 - Created OrthoLegKB, a comparative genomics graph database integrating (genetic/omic) data on legumes
 - Studied the genetics of resistance of legumes to bruchids with OrthoLegKB
- **06/2020 – 08/2020 | Biofortis / Saint-Herblain, FRANCE / Intern**
IT department (supervisor: Erwann Scaon)
 - Analysed human gut microbiota data using clustering methods in R
- **01/2019 – 06/2019 | IAB / Grenoble, FRANCE / Intern**
RNA, Epigenetics and Stress team (supervisor: Virginie Faure)
 - Optimised of the CRISPR-Cas13 system to degrade a long lncRNA
 - Cell culture (HeLa, HEK-293) and transfection
 - Tracked lncRNAs with RT-qPCR and RNA-FISH
- **04/2018 – 05/2018 | IGDR / Rennes, FRANCE / Intern**
Synthecell team (supervisor: Vasantha Radhakrishnan)
 - Studied the aging process in fission yeast using synthetic biology

EDUCATION

- **2021-2024 | PhD in Bioinformatics**
University of Dijon and INRAE / Dijon, FRANCE
 - Plant genetics, genomics, computational pipelines, knowledge graph, management
- **2019-2021 | MSc in Bioinformatics & Systems Biology**
University of Toulouse / Toulouse, FRANCE
 - Data analysis, statistics, linear models, databases (SQL), graph theory, evolutionary and quantitative genetics
- **2017-2019 | MSc in Genomics & Biotechnologies**
University of Limoges / Limoges, FRANCE
 - Developmental genetics, quantitative genetics, molecular engineering
- **2014-2017 | Bachelor of Science**
ICES / La Roche-sur-Yon, FRANCE
 - Option cell biology and physiology

SCIENTIFIC PRODUCTION

First-author research articles:

- Imbert, B., Kreplak, J., Flores, R.-G., Aubert, G., Burstin, J., and Tayeh, N. (2023). Development of a knowledge graph framework to ease and empower translational approaches in plant research: a use-case on grain legumes. *Front. Artif. Intell.* 6. doi: [10.3389/frai.2023.1191122](https://doi.org/10.3389/frai.2023.1191122)
- Imbert, B., Kreplak, J., Lejeune-Hénaut, I., Magnin-Robert, J.-B., Boutet, G., Marget, P., Aubert, G., Burstin, J., and Tayeh, N. (2024). Genome-wide association study of frost tolerance in *Vicia faba* reveals syntenic loci in cool-season legumes and highlights relevant candidate genes. *BioRxiv*. doi: [10.1101/2024.11.27.624268](https://doi.org/10.1101/2024.11.27.624268)

Other research articles and communications are available at: baptisteimbert.github.io/