Le Nézet Louis

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Qualifications

2025	**PhD** in Genetic, Genomic and Bioinformatics, University of Rennes, France
2018	**Master's Degree** in Animal and Human Behaviour, University of Rennes, France
2016	**Bachelor's in Biology**, University-Brittany-South / Vannes, France

Positions

2025	**PhD Student**, UMR 6290 IGDR, France: *"Genetics basics of hip dysplasia in dogs as a model for developmental dysplasia of the hip in humans"*
2021	**Research technician**, UMR 6290 IGDR, France: *"Genetics of hips dysplasia in guide dogs"*
2018	**Ethology internship**, UMR 6552 EthoS, France: *"Social stress and comfort food in ponies **Equus caballus** and in collared mangabeys **Cercocebus torquatus**"*
2017	**Ethology internship**, Eötvös Loránd University, Department of Ethology, Budapest: *"Screening for sensory decline in ageing pet dogs"*

Fundings

2025	4th year end of PhD - "Fondation pour la Recherche Médicale"
2024	Travel grant - EuroBioc Oxford
2021	PhD Research Grant - Visio Foundation
2017	Regional youth international scholarships grant - Brittany region

External Standing

2025	Nextflow Ambassador & nf-core hackathon organizer & member of the maintainers
	Reviewer for Bioinformatics Advances, ISSN: 2635-0041
2024	nf-core hackathon organizer
	Reviewer for Human heredity, ISSN: 1423-0062
2023	Organization member for the 1st and 2nd Life Science PhD Symposium
2021	Organization member for the 48th SFECA congress

Publications

Codes

pedixplorer (v1.5.6)	**Bioconductor** pedigree R package
nf-core/phaseimpute (v1.0.0)	**nf-core** pipeline for phasing and imputation
files2db (v0.9.0)	Application to aggregate and normalize data

Articles

Genevois, Jean-Pierre, Louis Le Nézet, Lauranne Machou, Pascale Quignon, and Catherine André (Oct. 2025). "Analyse Comparée de La Dysplasie de La Hanche Chez Le Chien et l'Homme". In: *Revue Vétérinaire Clinique*. ISSN: 2214-5672. DOI: 10.1016/j.anicom.2025.10.001.

Le Nézet, Louis, Jason Sinnwell, Anna Letko, Catherine André, and Pascale Quignon (June 2025). "Pedixplorer: A Bioconductor Package to Streamline Pedigree Design and Visualization". In: *Bioinformatics* 41.6. ISSN: 1367-4811. DOI: 10.1093/bioinformatics/btaf329.

Le Nézet, Louis, community nf-core community, Pascale Quignon, and Catherine André (June 2024). "PhaseImpute an nf-core pipeline for genetic imputation". In: Journées Ouvertes en Biologie, Informatiques et Mathématiques - 2024 - Toulouse.

Machou, Lauranne, Louis Le Nézet, and Pascale Quignon (Jan. 2022). "Faire avancer la recherche sur la génétique de la dysplasie coxo-fémorale du chien". FR. In: *La semaine vétérinaire* 1928.

Bognár, Zsófia, Patrizia Piotti, Dóra Szabó, Louis Le Nézet, and Enikő Kubinyi (July 2020). "A novel behavioural approach to assess responsiveness to auditory and visual stimuli before cognitive testing in family dogs". In: *Applied Animal Behaviour Science* 228. ISSN: 0168-1591. DOI: 10.1016/j.applanim.2020.105016.

Presentations

Posters

- ○ *"Introducing nf-core/phaseimpute from idea to release"* Phd Symposium 2024 - Rennes, Nextflow Summit 2024 - Barcelona
- ○ *"Imputation dans l'analyse génétique de la dysplasie de la hanche: une approche One Health chez le chien et l'Homme"* Assise de Génétiques 2024 - Paris, Atelier 281 Inserm 2024 - Bordeaux
- ○ *"From Dog to Human: Searching the genetic bases of hip dysplasia"* IGDR Day 2023 - Rennes, ED SVS Scientific day 2024 - St-Malo

Oral

- ○ *"Search of the genetic predisposition for Hip Dysplasia, using the dog model through leveraging One Health and Open Science"* EMGM 2025 - Brest
- ○ *"Pedixplorer: A modern R BioConductor package for efficient kinship analysis to draw and request complex pedigrees"* EuroBioc 2024 - Oxford
- ○ *"nf-core pipeline for genetic imputation: PhaseImpute"* Nextflow summit 2023 - Barcelona, PhD Symposium 2023 - Rennes, JOBIM 2024 - Toulouse
- ○ *"La dysplasie de la Hanche du Chien à l'Homme"* MT180 Rennes and Brittany 2023