

# 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 mangabees *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 1<sup>st</sup> and 2<sup>nd</sup> Life Science PhD Symposium  
2021 Organization member for the 48<sup>th</sup> SFECA congress

## Publications

### Codes

pedixplorer (v1.5.6)  
nf-core/phaseimpute (v1.0.0)  
files2db (v0.9.0)

**Bioconductor** pedigree R package  
**nf-core** pipeline for phasing and imputation  
Application to aggregate and normalize data



### Articles

Louis Le Nézet (Nov. 2025). "Recherche des bases génétiques de la Dysplasie Coxo-Fémorale chez le chien guide comme modèle de la Dysplasie Développementale de la Hanche chez l'humain". FR. In: *Thèse, Université de Rennes*.

Jean-Pierre Genevois, 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". FR. In: *Revue Vétérinaire Clinique*. ISSN: 2214-5672. doi: 10.1016/j.anicom.2025.10.001.

Louis Le Nézet, 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.

Louis Le Nézet, 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*.

Lauranne Machou, 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.

Zsófia Bognár, 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**

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### **Posters**

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- "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**

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- "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