

CONTACT INFORMATION**NAME:** Stéphane Peyrégne**E-MAIL:** stephanepeyregne@gmail.com**TEL:** To be updated**ADDRESS:** 15 rue Hélène Brion, 75013 Paris, France**NATIONALITY:** French**ORCHID ID:** 0000-0002-9823-9102[Google Scholar Profile](#)**EDUCATION**

- 2014-2019 - PhD *summa cum laude* in Biology, Department of Evolutionary Genetics, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany.
The research on "*Investigating deep human evolutionary and population history using archaic human genomes*" was carried out under the supervision of Dr. Kay Prüfer.
- 2011-2013 - MSc *magna cum laude* in Biosciences, Ecole Normale Supérieure de Lyon, Lyon, France.
- 2009-2010 - BSc *cum laude* in Ecology, Paul Sabatier University, Toulouse, France.
- 2007-2009 - Two-year undergraduate program *summa cum laude* in Biology, Mathematics, Physics, Chemistry, Geology, Lycée Pierre de Fermat, Toulouse, France.

CURRENT POSITION

- 2026-present - CNRS researcher, Principal Investigator of the Paleogenomics lab at Jacques Monod Institute, Paris, France.

PREVIOUS POSITION

- 2022-2026 - Postdoctoral researcher, Department of Evolutionary Genetics, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany.
The research on "*The population history of Denisovans*" is carried out in the group of Dr. Janet Kelso.
- 2019-2022 - Postdoctoral researcher, Department of Evolutionary Genetics, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany.
The research on "*The evolutionary history of spindle genes*" was carried out in the group of Dr. Benjamin M. Peter.

TEACHING EXPERIENCE**● COURSES**

- 2015-present - Guest lecturer in the "Evolutionary and Functional Genomics, Ancient DNA, Molecular Anthropology and Genome Bioinformatics" classes for graduate students, The Leipzig School of Human Origins
- 2024 - Guest lecturer in the "Human Genomes, Ancestry, and Health" course for undergraduate students, Lehigh University
- 2021 - Guest lecturer in the "Molecular Anthropology" course for graduate students in Biology, University of Leipzig
- 2019 - Guest lecturer in the "Evolutionary Ecology" classes for graduate students in Biology, University of Leipzig
- 2018 - Guest lecturer "Introduction to Ancient DNA" for high school students from Geneva, Switzerland
- 2015 - Co-organizer of the "Applied Phylogenetics" workshop and lecturer in "Introduction to Markov Models in Phylogenetics and Population Genomics" as part of this workshop at the Max Planck Institute for Evolutionary Anthropology

● RESEARCH MENTORING EXPERIENCE

- 2024-2025 - Gabriel Colares, Master student
- 2022-2025 - Yaniv Swiel, PhD student
- 2022-2025 - Jiaqi Yang, PhD student
- 2022-2024 - Tatyana Drobyshchinskaya, Master student
- 2023 - Robin Gerardin, Master student
- 2018-2023 - Divyaratan Popli, PhD student
- 2018 - Sophie Wolf, Master student
- 2017 - Arev P. Sümer, Bachelor student

PUBLICATIONS

- 1) **Peyrégne, S.**, Massilani, D., Swiel, Y., Boyle, M.J., Iasi, L.N.M., Sümer, A.P., Bossoms Mesa, A., de Filippo, C., Viola, B., Essel, E., Nagel, S., Richter, J., Weihmann, A., Schellbach, B., Zeberg, H., Visagie, J., Kozlikin, M.B., Shunkov, M.V., Derevianko, A.P., Peter, B.M., Meyer, M., Pääbo, S., Kelso, J. (under review at *Nature*), A high-coverage genome from a 200,000-year-old Denisovan.
- 2) Yang, J., Iasi, L.N.M., Fu, Q., Cooke, N.P., Kelso, J., **Peyrégne, S.***, Peter, B.M.* (2025), An early East Asian lineage with unexpectedly low Denisovan ancestry, *Current Biology* (* - equally contributing authors).
- 3) Jacobs, Z., Zavala, E.I., Li, B., O'Gorman, K., Shunkov, M.V., Kozlikin, M.B., Derevianko, A.P., Uliyanov, V., Goldberg, P., Agadjanian, A., Vasiliev, S., Brink, F., **Peyrégne, S.**, Slon, V., Pääbo, S., Kelso, J., Meyer, M., Roberts, R. (2025), Pleistocene chronology and history of hominins and fauna at Denisova Cave, *Nature Communications*.
- 4) Swiel, Y., Kelso, J., **Peyrégne, S.** (2025), Resolving the source of branch length variation in the Y chromosome phylogeny, *Genome Biology*.
- 5) Sümer, A.P., Rougier, H., Villalba-Mouco, V., Huang, Y., Iasi, L.N.M., Essel, E., Bossoms Mesa, A., Furtwaengler, A., **Peyrégne, S.**, de Filippo, C., Rohrlach, A.B., Pierini, F., Mafessoni, F., Fewlass, H., Elena I. Zavala, E.I., Mylopotamitaki, D., Bianco, R.A., Schmidt, A., Zorn, J., Nickel, B., Patova, A., Posth, C., Smith, G.M., Ruebens, K., Sinet-Mathiot, V., Stoessel, A., Dietl, H., Jörg Orschiedt, J., Kelso, J., Zeberg, H., Bos, K.I., Welker, F., Weiss, M., McPherron, S., Schüller, T., Hublin, J.J., Velemínský, P., Brůžek, J., Peter, B.M., Meyer, M., Meller, H., Ringbauer, H., Hajdinjak, M., Prüfer, K., Krause, J. (2024), Earliest modern human genomes constrain timing of Neandertal admixture, *Nature*.
- 6) **Peyrégne, S.**, Slon, V., Kelso, J. (2023), More than a decade of genetic research on the Denisovans, *Nature Reviews Genetics*
- 7) Popli, D., **Peyrégne, S.**, Peter, B.M. (2023), KIN: A method to infer relatedness from low-coverage ancient DNA, *Genome Biology*.
- 8) **Peyrégne, S.**, Kelso, J., Peter, B.M., Pääbo, S. (2022), The evolutionary history of human spindle genes includes back-and-forth gene flow with Neandertals, *eLife*.
- 9) Skov, L., **Peyrégne, S.**, Popli, D., Iasi, L.N.M., Devièse, T., Slon, V., Zavala, E.I., Hajdinjak, M., Sümer, A., Grote, S., Bossoms Mesa, A., López Herráez, D., Nickel, B., Nagel, S., Richter, J., Essel, E., Gansauge, M., Schmidt, A., Korlević, P., Comeskey, D., Derevianko, A.P., Kharevich, A., Markin, S.V., Talamo, S., Douka, K., Krajcarz, M.T., Roberts, R.G., Higham, T., Viola, B., Krivosheina, A.I., Kolobova, K.A., Kelso, J., Meyer, M., Pääbo, S., Peter B.M. (2022), Genetic insights into the social organization of Neanderthals, *Nature*.
- 10) **Peyrégne, S.**, Peter, B.M. (2020), AuthenticCT: a model of ancient DNA damage to estimate the proportion of present-day DNA contamination, *Genome Biology*.
- 11) Khan, N., de Manuel, M., **Peyrégne, S.**, Do, R., Prüfer, K., Marques-Bonet, T., Varki, N., Gagneux, P., & Varki, A. (2020). Multiple Genomic Events Altering Hominin SIGLEC Biology and Innate Immunity Predated the Common Ancestor of Humans and Archaic Hominins. *Genome biology and evolution*.

- 12) Romandini, M., Oxilia, G., Bortolini, E., **Peyrégne, S.**, Delpiano, D., Nava, A., Panetta, D., Di Domenico, G., Martini, P., Arrighi, S., Badino, F., Figus, C., Lugli, F., Marciani, G., Silvestrini, S., Menghi Sartorio, J.C., Terlato, G., Hublin, J.J., Meyer, M., Bondioli, L., Higham, T., Slon, V., Peresani, M., Benazzi, S. (2020), A late Neanderthal tooth from northeastern Italy, *Journal of Human Evolution* 147, 102867
- 13) **Peyrégne, S.**, Prüfer, K. (2020), Present-Day DNA Contamination in Ancient DNA Datasets, *BioEssays*, 2000081
- 14) Mafessoni, F., Grote, S., de Filippo, C., Slon, V., Kolobova, K. A., Viola, B., Markin, S. V., Chintalapati, M., **Peyrégne, S.**, Skov, L., Skoglund, P., Krivoschapkin, A. I., Derevianko, A. P., Meyer, M., Kelso, J., Peter, B., Prüfer, K., & Pääbo, S. (2020). A high-coverage Neandertal genome from Chagyrskaya Cave. *Proceedings of the National Academy of Sciences*, 117(26), 15132–15136. <https://doi.org/10.1073/pnas.2004944117>
- 15) Bokelmann, L., Hajdinjak, M., **Peyrégne, S.**, Brace, S., Essel, E., de Filippo, C., Glocke, I., Grote, S., Mafessoni, F., Nagel, S., Kelso, J., Prüfer, K., Vernot, B., Barnes, I., Pääbo, S., Meyer, M., Stringer, C. (2019), A genetic analysis of the Gibraltar Neanderthals, *Proceedings of the National Academy of Sciences* 116 (31), 15610-15615
- 16) **Peyrégne, S.**, Slon, V., Mafessoni, F., de Filippo, C., Hajdinjak, M., Nagel, S., Nickel, B., Essel, E., Le Cabec, A., Wehrberger, K., Conard, N.J., Kind, C. J., Posth, C., Krause, J., Abrams, G., Bonjean, D., Di Modica, K., Toussaint, M. Kelso, J., Meyer, M., Pääbo, S., Prüfer, K. (2019), Nuclear DNA from two early Neandertals reveals 80,000 years of genetic continuity in Europe, *Science Advances*, 5 (6), eaaw5873
- 17) Laval, G., **Peyrégne, S.**, Zidane, N., Harmant, C., Renaud, F., Patin, E., Prugnolle, F., Quintana-Murci, L. (2019), Recent Adaptive Acquisition by African Rainforest Hunter-Gatherers of the Late Pleistocene Sickle-Cell Mutation Suggests Past Differences in Malaria Exposure, *The American Journal of Human Genetics* 104 (3), 553-561
- 18) Slon, V. *, Mafesonni, F.*, Vernot, B. *, de Filippo, C., Grote, S., Viola, B., Hajdinjak, M., **Peyrégne, S.**, Nagel, S., Brown, S., Douka, K., Higham, T., Kozlikin, M.B., Shunkov, M.V., Derevianko, A.P., Kelso, J., Meyer, M., Prüfer K. and Pääbo S. (2018), The genome of the offspring of a Neanderthal mother and a Denisovan father, *Nature* 561 (7721), 113 (* - equally contributing authors)
- 19) Prüfer, K., de Filippo, C. *, Grote, S. *, Mafessoni, F. *, Korlević, P., Hajdinjak, M., Vernot, B., Skov, L., Hsieh, P., **Peyrégne, S.**, Reher, D., Hopfe, C., Nagel, S., Maricic, T., Fu, Q., Theunert, C., Rogers, R., Skoglund, P., Chintalapati, M., Dannemann, M., Nelson, B.J., Key, F.M., Rudan, P., Kućan, Ž., Gušić, I., Golovanova, L.V., Doronichev, V.B., Patterson, N., Reich, D., Eichler, E.E., Slatkin, M., Schierup, M.H., Andrés, A.M., Kelso, J., Meyer, M., Pääbo, S. (2017), A high-coverage Neandertal genome from Vindija Cave in Croatia, *Science* 358 (6363), 655-658 (* - equally contributing authors)
- 20) **Peyrégne, S.**, Boyle, M., Dannemann, M., Prüfer, K. Detecting ancient positive selection in humans using extended lineage sorting. (2017), *Genome Research* 27 (9), 1563-157

SCIENTIFIC CONFERENCES

● INVITED TALKS

- 2025 - **Peyrégne, S.** A Neandertal and Denisovan perspective on human prehistory, Institute for Vertebrate Paleontology and Paleoanthropology (Beijing, China)
- 2025 - **Peyrégne, S.** An archaic perspective on human prehistory, Nobel Symposium (Stockholm, Sweden)
- 2024 - **Peyrégne, S.** Insights into the peopling of Asia and Oceania from a new Denisovan genome, Musée de l'Homme (Paris, France)
- 2024 - **Peyrégne, S.** Reconstructing and analyzing archaic human genomes, Norwegian Bioinformatics Days 2024 (Bergen, Norway)
- 2024 - **Peyrégne, S.** Dissecting Denisovan Ancestry in present-day people with a new high-coverage Denisovan genome, Institute of Ecology & Evolution (Bern, Switzerland)

- 2023 - **Peyrégne, S.** Reconstructing the evolutionary and population history of archaic and modern humans. Jacques Monod Institute (Paris, France)
- 2022 - **Peyrégne, S.** What can we learn from archaic human genomes?, Grand Programme de Recherche "Human Past", PACEA UMR 5199 (Bordeaux, France)
- 2019 - **Peyrégne, S.** Insights into Neandertal population history, *Unlocking the past: Ancient DNA symposium*, SciLifeLab (Uppsala, Sweden)
- 2017 - **Peyrégne, S.** Detecting ancient positive selection in humans using extended lineage sorting. Museum National d'Histoire Naturelle (Paris, France)

● **PODIUM PRESENTATIONS**

- 2025 - **Peyrégne, S.**, Massilani, D., Swiel, Y., Bossoms Mesa, A., Sümer, A.P., Boyle, M.J., Iasi, L.N.M., de Filippo, C., Viola, B., Essel, E., Nagel, S., Richter, J., Weihmann, A., Schellbach, B., Zeberg, H., Visagie, J., Kozlikin, M.B., Shunkov, M.V., Derevianko, A.P., Peter, B.M., Meyer, M., Pääbo, S., Kelso, J., An updated catalogue of Denisovan-derived genetic changes. *Ancient genomes: perspectives on human biology and medicine, Genetics Society Autumn Meeting* (London, United Kingdom)
- 2025 - **Peyrégne, S.**, Massilani, D., Swiel, Y., Bossoms Mesa, A., Sümer, A.P., Boyle, M.J., de Filippo, C., Viola, B., Essel, E., Nagel, S., Richter, J., Weihmann, A., Schellbach, B., Zeberg, H., Visagie, J., Kozlikin, M.B., Shunkov, M.V., Derevianko, A.P., Peter, B.M., Meyer, M., Pääbo, S., Kelso, J., A new Denisovan genome sheds light on the peopling of Asia and Oceania. *European Society for the study of Human Evolution (ESHE)* (Paris, France)
- 2025 - **Peyrégne, S.**, Massilani, D., Swiel, Y., Bossoms Mesa, A., Sümer, A.P., Boyle, M.J., de Filippo, C., Viola, B., Essel, E., Nagel, S., Richter, J., Weihmann, A., Schellbach, B., Zeberg, H., Visagie, J., Kozlikin, M.B., Shunkov, M.V., Derevianko, A.P., Peter, B.M., Meyer, M., Pääbo, S., Kelso, J., Denisovan ancestry sheds new light on modern human dispersals into Asia. *Society for Molecular Biology and Evolution (SMBE)* (Beijing, China)
- 2024 - **Peyrégne, S.**, Massilani, D., Swiel, Y., Bossoms Mesa, A., Sümer, A.P., Boyle, M.J., de Filippo, C., Viola, B., Essel, E., Nagel, S., Richter, J., Weihmann, A., Schellbach, B., Zeberg, H., Visagie, J., Kozlikin, M.B., Shunkov, M.V., Derevianko, A.P., Peter, B.M., Meyer, M., Pääbo, S., Kelso, J., A high-quality genome from a 200,000-year-old Denisovan. *Society for Molecular Biology and Evolution (SMBE)* (Puerto Vallarta, Mexico)
- 2022 - **Peyrégne, S.**, Kelso, J., Peter, B.M., Pääbo, S., Va-et-vient entre les humains modernes et les Néandertaliens, l'histoire des substitutions d'acides aminés dans KNL1. *Groupe des Anthropologistes de Langue française (GALF)* (Bordeaux, France)
- 2019 - **Peyrégne, S.**, Slon, V., Mafessoni, F., de Filippo, C., Hajdinjak, M., Nagel, S., Nickel, B., Essel, E., Le Cabec, A., Wehrberger, K., Conard, N.J., Kind, C. J., Posth, C., Krause, J., Abrams, G., Bonjean, D., Di Modica, K., Toussaint, M. Kelso, J., Meyer, M., Pääbo, S., Prüfer, K. Analysis of Nuclear DNA Sequences from the Neandertals of Hohlenstein-Stadel and Scladina Caves. *European Society for the study of Human Evolution (ESHE)* (Liège, Belgium)
- 2019 - **Peyrégne, S.**, Slon, V., Mafessoni, F., de Filippo, C., Hajdinjak, M., Nagel, S., Nickel, B., Essel, E., Le Cabec, A., Wehrberger, K., Conard, N.J., Kind, C. J., Posth, C., Krause, J., Abrams, G., Bonjean, D., Di Modica, K., Toussaint, M. Kelso, J., Meyer, M., Pääbo, S., Prüfer, K. 80,000 years of Neandertal Genetic continuity in Europe. *EMBO | EMBL Symposia, Reconstructing the Human Past - Using Ancient and Modern Genomics* (Heidelberg, Germany)
- 2016 - **Peyrégne, S.**, Dannemann, M., Lachmann, M., Prüfer, K. Detecting ancient positive selection in the human genome from extended lineage sorting. *Keynote Symposia, Understanding the function of the human genome variation* (Uppsala, Sweden)
- 2015 - **Peyrégne, S.**, Theunert, C., Dannemann, M., Lachmann, M., Stoneking, M., Prüfer, K. Detecting

ancient selective sweeps in modern humans using the genomes of our closest extinct relatives. *Society for Molecular Biology and Evolution (SMBE)* (Vienna, Austria)

● POSTER PRESENTATIONS

- 2022 - **Peyrégne, S.**, Kelso, J., Peter, B.M., Pääbo, S., Back-and-forth gene flow between modern humans and Neandertals. *EMBO | EMBL Symposia, Reconstructing the Human Past - Using Ancient and Modern Genomics* (Heidelberg, Germany)
- 2021 - **Peyrégne, S.**, Kelso, J., Peter, B.M., Pääbo, S., The evolutionary history of mitotic spindle proteins carrying amino acid changes in modern human. *6th Probabilistic Modeling in Genomics Conference (ProbGen21)* (Online attendance)
- 2019 - **Peyrégne, S.**, Peter, B.M., Modeling ancient DNA damage to estimate present-day DNA contamination. *5th Probabilistic Modeling in Genomics Conference (ProbGen19)* (Aussois, France)
- 2019 - **Peyrégne, S.**, Peter, B. Estimating present-day DNA contamination based on a model of ancient DNA damage. *EMBO | EMBL Symposia, Reconstructing the Human Past - Using Ancient and Modern Genomics* (Heidelberg, Germany)
- 2015 - **Peyrégne, S.**, Theunert, C., Dannemann, M., Lachmann, M., Stoneking, M., Prüfer, K. Using a signal of extended lineage sorting to detect positive selection in modern humans since the split from Neandertal and Denisova. *1st Probabilistic Modeling in Genomics Conference (ProbGen15)* (Cold Spring Harbor, USA)

PUBLIC OUTREACH

● INVITED TALKS

- 2023 - **Peyrégne, S.**, Qu'est-ce que l'ADN ancien nous apprend de nos ancêtres ?, National Museum of Prehistory in Les Eyzies
- 2023 - **Peyrégne, S.**, Le Néandertalien en nous, Archaeological Museum of Val d'Oise
- 2021 - **Peyrégne, S.**, L'Histoire des Néandertaliens et Denisoviens révélée par la génétique, *Café des Sciences*, French Embassy in Berlin

● PUBLICATIONS

- 2022 - Massilani, D., **Peyrégne, S.**, Sur les pas de nos cousins, les Denisoviens, *La Recherche*, La préhistoire revisitée (trimestriel N°570)
- 2020 - **Peyrégne, S.** Tracing the Ancestral Roots of Neandertals. *TheScienceBreaker*

● PRESS INTERVIEWS

- 2024 - *Epsilon*, Vincent Nouyrigat
- 2024 - *Le Monde*, Hervé Morin
- 2024 - *Science*, Ann Gibbons
- 2024 - *New Scientist*, Sophie Berdugo
- 2024 - *The New York Times*, Carl Zimmer
- 2024 - *Science&Vie*, Isabelle Verbaere
- 2023 - *Sur les traces de la Préhistoire, France Bleu Périgord*, Christophe Tastet
- 2022 - *Pour la Science*, François Savatier
- 2022 - *Agence France-Press*, Juliette Collen
- 2020 - *Cosmos Magazine*, Dyani Lewis
- 2019 - *Science In Action*, BBC radio, Julian Siddle and Roland Pease
- 2019 - *National Geographic*, Maya Wei-Haas

- 2019 - *New Scientist*, Alison George
- 2019 - *Cosmos Magazine*, Dyani Lewis
- 2019 - *Science News*, Bruce Bower
- 2019 - *Ars Technica*, Kiona Smith
- 2019 - *Current World Archaeology*, Lucia Marchini
- 2018 - *Science&Vie*, Thomas Cavaillé-Fol