

Curriculum vitae

Johannes Krause

Born 1980 in Leinefelde, Thuringia, German Democratic Republic (GDR)

Contact Max Planck Institute for Evolutionary Anthropology
Department of Archaeogenetics
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Research Focus

- **Ancient DNA**
- **Archaeogenetics**
- **Human Evolution**
- **Ancient Pathogen Genomics**
- **Comparative and Evolutionary Genomics**
- **Human Immunogenetics**

Present Positions

Since 2020 **Director**, Max Planck Institute for Evolutionary Anthropology, Department of Archaeogenetics, Leipzig, Germany,

Since 2018 Full **Professor** for Archaeogenetics, Institute of Zoology and Evolutionary Research, Friedrich Schiller University Jena, Germany

Since 2016 **Director**, Max-Planck – Harvard Research Center for the Archaeoscience of the Ancient Mediterranean (MHAAM), Jena / Leipzig, Germany

Since 2015 Honorary **Professor** for Archaeo- and Paleogenetics, Institute for Archaeological Sciences, Eberhard Karls University Tuebingen, Germany

Professional Career

2020 – 2021 **Commissary head**, Max Planck Institute for the Science of Human History, Department of Archaeogenetics, Jena, Germany,

2014 – 2020 **Founding Director**, Max Planck Institute for the Science of Human History, Department of Archaeogenetics, Jena, Germany,

2013 – 2015 Full **Professor (W3)** for Archaeo- and Paleogenetics, Institute for Archaeological Sciences, Eberhard Karls University Tuebingen, Germany

2010 – 2013 **Junior Professor (W1)** for Palaeogenetics, Institute for Archaeological Sciences, Eberhard Karls University Tuebingen, Germany

2008 – 2010 **Postdoctoral Fellow** at the Max Planck Institute for Evolutionary Anthropology, Department of Evolutionary Genetics, Leipzig, Germany. Research: Ancient human genetics and genomics

2005 – 2008 **Dr. rer. nat.** (Ph.D. in natural science) *From Genes to Genomes: Applications for Multiplex PCR in Ancient DNA Research*, Grade: 1.0 “Summa cum laude”, Leipzig University & Max Planck Institute for Evolutionary Anthropology, Germany

2003 – 2005 **Student Assistant** at the Max Planck Institute for Evolutionary Anthropology, Department of Evolutionary Genetics, Leipzig, Germany

University Education

2000 – 2005 **Biochemistry**, University Leipzig, Germany
2002 – 2003 **Biochemistry**, University College Cork, Ireland

Selected Research Grants

2021 – 2026 **Max Planck – Harvard Research Center for the Archaeoscience in the Ancient Mediterranean (MHAAM)**. 2nd round of funding. Total financial volume: 5,000,000 Euro

2020 – 2026 **ERC Synergy Grant**: “HistoGenes – Integrating genetic, archaeological and historical perspectives on Eastern Central Europe, 400-900 AD.” Total grant: 10,000,000 Euro

2017 – 2019 **GENESEZS: “Genetic exploration of epidemics in central Asia”** – BMBF supported project with Kazakh Scientific Center of Quarantine and Zoonotic Diseases (KSCQZD) and Institute of General Genetics and Cytology (IGGC) in Almaty Kazakhstan. Financial volume: 170,000 Euro

2016 – 2021 **Max Planck – Harvard Research Center for the Archaeoscience in the Ancient Mediterranean (MHAAM)**. 2nd round of funding. Total financial volume: 5,000,000 Euro

2015 - 2018 **D-A-Ch Project**: “The Oberbipp Dolmen in the context of the Neolithic Revolution.” Financial volume: 200,000 Euro

2013 – 2018 **ERC Starting Grant**: “Ancient Pathogen Genomics of Re-emerging Infectious Disease.” Total financial grant: 1,500,000 Euro

2013 – 2016 **WIN-Kolleg** Heidelberg Academy project: “New ways to integrate natural sciences and humanities.” Total financial grant for Palaeogenetics research group: 130,000 Euro

2013 – 2016 **Landesstiftung Baden-Württemberg**: “Genetic investigation of the prehistorical settlement of the Ach and Lone Valleys.” Total financial grant: 150,000 Euro

2012 – 2015 **DFG Research Grant**: “The settlement of Europe: Population genetic history of Pleistocene modern humans in Europe.” Total financial grant: 252,000 Euro

2010 – 2014 **Carl Zeiss Foundation** (structural innovation program) Environmental Archaeology (Umweltarchäologie): “The impact of climate change on early societies.” Total financial grant for the Palaeogenetics research group: 400,000 Euro

Fellowships, Honors and Academic Service

since 2021 **Scientific Advisory Board** member of “Kiel Life Science”, Kiel University

2020 **Fabio Frassetto International Prize** for Paleoanthropology

2018 – 2020 **Speaker** for the Max Planck Research School for the Science of Human History (IMPRS)

since 2018 **Distinguished Scientific Advisor** for BGI 10k Ancient Genomes Project

2017 **Annual Thuringian Research Prize** in the area of fundamental research

since 2016 Corresponding Member, **CARTA** (Center for Academic Research & Training in Anthropogeny)

since 2016 Corresponding Member, **German Archaeological Institute**

since 2016 Advisory board, **Luschan collection Berlin**

2016 – 2019 **Invited Adjunct Professor** at Xi'an Jiaotong University, China

2015 Excellent Speaker Award, **Boerhaave Nascholing**

since 2014 **Reviewing editor** of eLife

since 2013 **WIN-Kolleg Fellow** (Heidelberg Academy of Sciences and Humanities)

2013 – 2015 **Speaker** at **EVEREST** – Evolution and Ecology Research School Tuebingen

since 2012 **Executive Board Member** of **EVE** – Evolution and Ecology Forum Tuebingen

- since 2011 **Executive Board Member** of **TZA** – Tuebinger Inter-faculty Centre for Archaeology
- since 2010 **Associate Editor** for **BMC Genomics**
- 2010 **Tübinger Förderpreis** of the Society of Early Prehistory and Quaternary Ecology for doctoral thesis
- 2010 **AAAS Newcomb Cleveland Prize** for the most outstanding paper published in *Science*
- since 2005 **Reviewer** (ad hoc) for *Science, Nature, Nature Reviews Genetics, PLoS Biology, PLoS ONE, Molecular Biology and Evolution, Am. J. Phys. Anthropol., BMC Evolutionary Biology, Mitochondria, BMC Bioinformatics, Biotechniques, Genome research, MBE, Biolinguistics, PNAS*

Teaching

- since 2019 Ringvorlesung in **Human History**, Institute of Zoology and Evolutionary Research, Friedrich Schiller University Jena
- since 2018 Ringvorlesung in **Evolutionary Biology**, Institute of Zoology and Evolutionary Research, Friedrich Schiller University Jena
- since 2015 Ringvorlesung **Molekulare Zellbiologie und Biomedizin**, Friedrich Schiller University Jena
- 2013 – 2015 Seminar and lecture in **Introduction to Evolutionary Genetics**, Palaeoanthropology Bachelor, University of Tuebingen
- 2011 – 2015 Seminar, lecture and practical session in **Paleogenetics**, Palaeoanthropology Bachelor, University of Tuebingen
- since 2010 Seminar, lecture and practical session in **Human Genetics**, Palaeoanthropology Bachelor, University of Tuebingen
- 2009/2010 Seminar and practical session in **Biochemistry**, Polyvalenter Bachelor, University of Leipzig
- 2009 Practical session: **Evolutionary Ecology**, master module for biologists, University of Leipzig

Student training

Ph.D. Students

Currently supervising 13 Ph.D. students:

Rodriguez, J. (since 2020); **Saari, N.** (since 2018); **Musralina, L.** (since 2018); **Neumann, G.** (since 2018); **Clayton, S.** (since 2019); **Carlhoff, S.** (since 2018); **Michel, M.** (MHAAM since 2017); **Barquera, R.** (since 2016); **Neukamm, J.** (since 2016); **Parker, C.** (since 2016); **Skourtanioti, E.** (since 2016); **Pfrenge, S** (since 2015); **Fellow Yates, J.** (since 2015)

16 Ph.D. students supervised with theses completed and defended:

Majander, K., Universität Tübingen (2014-2021); **Naegele, K.**, Universität Tübingen (2016-2020); **Valtuna, A.**, Friedrich-Schiller-Universität Jena (2015-2020); **van de Loodsrecht, M.** (2015-2020); **Furtwängler, A.**, Universität Tübingen (2015-2020); **Nelson, E.**, Universität Tübingen (2016-2020); **Feldman, M.**, Friedrich-Schiller-Universität Jena, (2013-2020); **Immel, A.**, Friedrich-Schiller-Universität Jena (2013-2020); **Keller, M.**, Friedrich-Schiller-Universität Jena (2015-2020); **Sabin, S.**, Friedrich-Schiller-Universität Jena (2016-2019); **Spyrou, M.**, Universität Tübingen (2013-2018) [winner of MPG Otto Hahn Medal]; **Vagene, A.**, Universität Tübingen (2013-2018); **Posth, C.**, Universität Tübingen (2011-2017); **Peltzer, A.**, Universität Tübingen (since 2014-2018); **Mitnik, A.**, Universität Tübingen (2011-2016); **Schuenemann, V.**, Universität Tübingen (2010-2014)

23 MA theses completed:

Neumann, G., Universität Tübingen (2017-2018); **Gretzinger, J.**, Universität Tübingen (2017-2018); **Bianco R. A.**, Universität Tübingen (2017-2018); **Lacher, L.**, Universität Tübingen (2016-2017); **Jodoin, S.**, Universität Tübingen (2016-2017); **Venkatakrishnan, S.**, Universität Tübingen (2016-2017); **Feuerborn, T.**, Universität Tübingen (2015-2016); **Sabin, S.**, Universität Tübingen (2015); **Furtwängler, A.**, Universität Tübingen (2014-2015); **Begg, T.**, Universität Tübingen (2014-2015); **Fellows Yates, J.**, Universität Tübingen (2014-2015); **Neukamm, J.**, Universität Tübingen (2014-2015); **Kuccukalipci, I.**, Universität Tübingen (2014-2015); **Pfrenge, S.**, Universität Tübingen (2014-2015); **Valtuena, A.**, Universität Tübingen (2014-2015); **Peltzer, A.**, Universität Tübingen (2013-2014); **Bonazzi, M.**, Universität Strassbourg (2012-2013); **Posth, C.**, Universität Florenz (2012-2013); **Langbein, F.**, Universität Tübingen (2011-2012); **Mittnik, A.**, Universität Tübingen (2010-2011); **Rankin, S.**, Universität Upsalla (2009-2010); **Northoff, B.**, Universität Leipzig (2008-2009); **Unger, T.**, Universität Leipzig (2007-2008)

Public Outreach and Media Coverage

Selected television coverage:

Radio Bremen TV: "3nach9" (2021); ZDF: "Terra X" (Nov. 2021, Mar. 2020, Oct. 2018, Nov. 2017); NDR: "Das!" (2021, 2019); ZDF: "Mittagsmagazin" (2019); MDR: "Riverboat" (2019); Arte TV, ZDF: "Die Reise der Menschheit" (awarded with Deutscher Fernsehpreis (*German Television Award*) in 2018); MDR aktuell: Thüringen Journal (2015, 2016, 2017, 2018); BBC: "The Mystery of Rome's X Tombs" (2013); 3Sat: Scobel: "Viren" (2013); Planetopia: "Der Schwarze Tod" (2012); Bundesverband Deutscher Film-Autoren (BDFA): "Neandertaler – sind wir wirklich verwandt" (2011); ARTE: "Der Neandertaler in uns" (2010); WDR: Quarks & Co: "Wieviel Neandertaler steckt in uns?" (2010); ZDF-History: "Der Neandertaler-Code" (2010); National Geographic Documentary: "Neanderthal Code" (2008); The History Channel Documentary: "Clash of the Cavemen" (2008); Exploratorium Virtual Museum's Evidence: "How we know what we know" (2008); ZDF: "Der Neandertaler" (2006)

Selected radio contributions:

Deutschlandradio, Radio Eins, Deutschlandfunk, Deutsche Welle, Radioeins, SRF, NPR, CBC Radio, BBC Radio, Radio Scotland, RBB Kulturradio, MDR Figaro, Mephisto, Radio Schweden, Radio NZ, BBC World, BBC Africa, ORF Radiokolleg, Irish Radio, Radio Sachsen, SBS Sydney

Selected print media:

Science, Nature, The New York Times, National Geographic, Discovery News, GEO Magazine, Times (London), The Guardian, The Independent, Der Spiegel, Der Fokus, FAZ, Die Zeit, Die Welt, Sueddeutsche Zeitung, Channel Four News, USA Today, CNN Online, Washington Post, Frankfurter Rundschau, Science Daily, Neue Zürcher Zeitung, Der Standard, Spektrum der Wissenschaft, International Business Times, Times of India, Science Daily, La Vanguardia, El Pais, Le Figaro

Invited Presentations

(total: over 400, >30 keynote lectures; selected are listed since 2015)

2021

Workshop and Annual Meeting of the Swiss Society for Anthropology (SSA), Chur, CH
28th International Virtual Complement Workshop (ICW)
ARCHAIA, Yale University, US (digital)
Universitätsklinikum Leipzig, DE
DAI Heidelberg, DE
Virtual Symposium for the Iceman's 30th anniversary, Eurac Research, Bozen, IT
Roemer- und Pelizaeus-Museum Hildesheim (RPM), DE

Bern Historical Museum, CH
Tagung "Eine Archäologie der Forschungsgeschichte", Berlin-Brandenburgische Akademie der Wissenschaften, DE (digital)
Skeletal Biology Research Centre (SBRC) Annual Lecture, University of Kent (digital), UK
Museum für Naturkunde, Berlin, DE
Brown Beer Biological Anthropology Colloquium, Yale University, US (digital)
Center for the Dynamics of Social Complexity (DySoC), University of Tennessee, US (digital)
Conference: 50,000 years of human history in our DNA, Institut de France – Académie des Sciences, FR (digital)

2020

European Association for Archaeology (EAA) Annual Meeting (digital), Budapest, HU
Conventus Foundation, Frankfurt, DE
Asklepios Medical School, Hamburg, DE
Tagung Migration und Brücken, Deutsches Studienzentrum, Venedig, IT
Blom Virtual Archaeology Seminar, Cambridge, UK
Alte Synagoge Wuppertal, DE
Museum und Park Kalkriese, DE
History and Culture of the Great Steppe, International Conference, Almaty, KZ
Eichsfeldforum, Erwachsenenbildung, Heiligenstadt, DE
Volkshochschule München, DE (digital)
University of Osnabrueck & Center of Cellular Nanoanalytics, DE (digital)
Berliner Gesellschaft für Anthropologie, Ethnologie und Urgeschichte, DE
KORTIZES Institut für populärwissenschaftlichen Diskurs, DE

2019

Technical University of Munich, DE
Molecular Diagnostics Symposium, University of Zurich, CH
American School of Classical Studies, Athens, GR
SAA Annual Meeting, Albuquerque, US
Themenkonzert, Philharmonisches Staatsorchester, Hamburg, DE
Steinzeitliche Grenzerfahrungen, Landesmuseum Hannover, DE
Peopling History of Africa, University of Genf, CH
ISABS, Split, HR
EMBC, 50th anniversary, Heidelberg, DE
Les maladies infectueuses dans l'Antiquité, École française de Rome, IT
ESEB, Turku, FI

2018

Warwick Medical School, UK
Alfred Krupp Wissenschaftskolleg, Greifswald, DE
Harvard University, Cambridge, US
BGI, Shenzhen, CN
DKFZ-ZMBH Allianz, Heidelberg, DE
Westfälisches Landesmuseum, Herne, DE
University of York, UK
Archäologisches Museum, Hamburg, DE
Deutsches Hygiene-Museum, Dresden, DE
SMBE, Yokohama, JP
Gordon Research Conference, Barcelona, ES
The Age of Humans in Europe, Stockholm, SE
Science Festival, Moscow, RU
Infectious Diseases in the 21st Century Conference, Jena, DE
16th Medical Biodefense Conference, Munich, DE
DSMZ, Braunschweig, DE

Katholische Akademie Bayern, Munich, DE
Musée de L'Homme, Paris, FR
DGfA Tagung, Jena, DE
DAI, Heidelberg, DE
The Lapedo Child Discovery – 20 Years Afterwards Conference, Leiria, PT

2017

National University of Galway, IE
SAA, Vancouver, CA
Junior-GBM, Jena, DE
Planetarium, Jena, DE
SMBE, Austin, US
Big Data in Biology and Health Conference, Hinxton, UK
Harvard University, Cambridge, US
World Health Summit, Berlin, DE
Museum für Archäologie, Herne, DE
18. Heidenheimer Archäologie-Colloquium, DE
International Science Festival, Heidelberg, DE
Stiftung Neanderthal Museum, Mettmann, DE
KinderUni, Gotha, DE
Human Evolution: Fossils, Ancient and Modern Genomes, Hinxton, UK
Max Planck Institute for Social Anthropology, Halle, DE
DKFZ-ZMBH Colloquium Series, Heidelberg, DE
ESHG, Copenhagen, DK
Friedrich-Löffler-Institut, Riems, DE
EHBEA, Paris, FR
HGM 2017 Conference, Barcelone, ES

2016

Kirche und Wissenschaft, München, DE
CARTA Symposium, San Diego, US
KinderUni, Weil, DE
Banbury Center, New York, US
Leopoldina, Berlin, DE
Heidelberger Akademie der Wissenschaften, DE
Technische Universität, Ilmenau, DE
Freie Universität, Berlin, DE
16th international Gene Forum 2016, Tartu, EE
Schule mit Wissenschaft, Erfurt, DE
SMBE Conference, Gold Coast, AU
Medical Genetics Summer School, Universität Tübingen, DE
URPP Evolution in Action, Rheinfelden, DE
ISBA7, Oxford, UK
Schloss Ringbach, Tegernsee, DE
Blumenbach Lecture, Georg-August-Universität Göttingen, DE
Wissenschaftsfestival an der MGU, Moscow, RU
Zoonosensymposium, Berlin
Goethe-Universität, Frankfurt, DE
Helmholtz-Vorlesung, Humboldt-Universität zu Berlin, DE
Zoonose-Workshop, Gießen, DE

2015

Annual Conference of the Association for General and Applied Microbiology, Marburg, DE
12. Naturwissenschaftliches Forum der Academia Engiadina, Zurich, CH
Leiden University, NL

Society for General Microbiology Conference, Birmingham, UK
SMBE, Vienna, AT
Systems Biology of Infection symposium, Monte Verità, CH
Studium Generale, Groningen, NL
Genetic History: A Challenge to Historical and Archaeological Studies Conference, Berlin, DE
Albert-Ludwigs-Universität Freiburg, DE

List of publications

(Current as of January 2022. A continuously updated list of publications can be found at:
<https://www.eva.mpg.de/archaeogenetics/staff/johannes-krause/>)

Total number	194
Books	3
Book chapters	6
H-index	65 (Scopus)
	81 (Google Scholar)

Articles

2021

185. Alpaslan-Roodenberg, S., Anthony, D., Babiker, H., Bánffy, E., Booth, T., Capone, P., Deshpande-Mukherjee, A., Eisenmann, S., Fehren-Schmitz, L., Frachetti, M., Fujita, R., Frieman, C. J., Fu, Q., Gibbon, V., Haak, W., Hajdinjak, M., Hofmann, K. P., Holguin, B., Inomata, T., Kanzawa-Kiriyama, H., Keegan, W., Kelso, J., **Krause, J.**, Kumaresan, G., Kusimba, C., Kusimba, S., Lalueza-Fox, C., Llamas, B., MacEachern, S., Mallick, S., Matsumura, H., Morales-Arce, A. Y., Matuzeviciute, G. M., Mushrif-Tripathy, V., Nakatsuka, N., Nores, R., Ogola, C., Okumura, M., Patterson, N., Pinhasi, R., Prasad, S. P. R., Prendergast, M. E., Punzo, J. L., Reich, D., Sawafuji, R., Sawchuk, E., Schiffels, S., Sedig, J., Shnaider, S., Sirak, K., Skoglund, P., Slon, V., Snow, M., Soressi, M., Spriggs, M., Stockhammer, P. W., Szécsényi-Nagy, A., Thangaraj, K., Tiesler, V., Tobler, R., Wang, C.-C., Warinner, C., Yasawardene, S., & Zahir, M. (2021). Ethics of DNA research on human remains: Five globally applicable guidelines. *Nature*, 599, 41-46. doi:10.1038/s41586-021-04008-x.
184. Parker, C. E., Bos, K. I., Haak, W., & **Krause, J.** (2021). Optimized bone sampling protocols for the retrieval of ancient DNA from archaeological remains. *Journal of Visualized Experiments*, 177: e63250. doi:10.3791/63250.
183. Villalba-Mouco, V., Oliart, C., Rihuete-Herrada, C., Childebayeva, A., Rohrlach, A. B., Fregeiro, M. I., Beltrán, E. C., Velasco-Felipe, C., Aron, F., Himmel, M., Freund, C., Alt, K. W., Salazar-García, D. C., Atiénzar, G. G., de Ibáñez, M. P. M., Pérez, M. S. H., Barciela, V., Romero, A., Ponce, J., Martínez, A., Lomba, J., Soler, J., Martínez, A. P., Fernández, A. A., Haber-Uriarte, M., de Muñoz, C. R. T., Olalde, I., Lalueza-Fox, C., Reich, D., **Krause, J.**, Sanjuán, L. G., Lull, V., Micó, R., Risch, R., & Haak, W. (2021). Genomic transformation and social organization during the Copper Age - Bronze age transition in Southern Iberia. *Science Advances*, 7(47): eabi7038. doi:10.1126/sciadv.abi7038.
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