

***Jussi T. Eronen, brief Curriculum Vitae, 11.5.2012***

***Name:***

Jussi Tuomas Eronen

***Date of Birth:***

1978

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***Current position:***

Alexander von Humboldt research fellow at Biodiversität und Klima Forschungszentrum (BiK-F), Frankfurt am Main, Germany, 1.9.2011-30.6.2012 (Funding from Alexander von Humboldt Foundation to J.T. Eronen)

***Education:***

Docent 2008 Paleontology, with special field Paleobiology (equal to Adjunct Professorship), University of Helsinki

Ph. D. 2006 Paleontology, University of Helsinki, Finland (supervisors Prof. M. Fortelius & Prof. J. Jernvall)

M. Sc. 2003 Geology & Paleontology, University of Helsinki, Finland

Baccalaureat 1997, Nilsian Lukio, Nilsia, Finland

***Professional experience:***

University of Helsinki Post-Doctoral Researcher, Department of Geosciences & Geography, 1.1.2011-31.12.2013 (Funding from UH to J.T. Eronen)

Researcher & Scientific coordinator 2008-2010. Department of Geosciences & Geography, and Department of Computer Science, University of Helsinki, Finland (Funding from prof. H. Mannila & prof. M. Fortelius)

Post-doctoral Researcher 2007-2008, Department of Geology, University of Helsinki, Finland (Personal grant from Kone Foundation)

Visiting post-doctoral fellow 2006-2007, Senckenberg Museum of Natural History & Research Institute, Frankfurt am Main, Germany (personal grant, Host: director, prof. V. Mosbrugger)

PhD student, 2003-2006, Department of Geology, University of Helsinki, Finland (funding from prof. M. Fortelius)

***Memberships in scientific Committees and Boards:***

Member of NECLIME (Neogene Climate Evolution in Eurasia, [www.neclime.de](http://www.neclime.de)) 2005-

Member of Evolution of Terrestrial Ecosystems Consortium, 2007- (See

<http://www.nmnh.si.edu/ete/>)

Member of the iCCB (integrative Climate Change Biology), a program under the

International Union of Biological Sciences, 2008-  
 Associate coordinator, Neogene of Old World database (NOW,  
<http://www.helsinki.fi/science/now>) 2009-  
 Served as chief scientific coordinator for workshop/project on integrative  
 examination of boundaries in nature and society (Finnish Cultural Foundation  
 project 2008-2010)  
 Member of the thesis examination committee for Sara Varela Gonzalez (18.2.2011),  
 Universidad Autonoma de Madrid, Spain. The title of the thesis “APLICACIÓN  
 DE LOS MODELOS DE DISTRIBUCIÓN DE ESPECIES HACIA EL PASADO.  
 Análisis de la distribución y extinción las poblaciones europeas de hiena  
 manchada (*Crocuta crocuta* (Erxleben, 1777)) durante el Pleistoceno”  
 Convener, 3rd International Palaeontological Congress. London, UK, Jun 2010. Session:  
 From Teeth to Tibet: New Techniques and Views on Mammals and Cenozoic  
 Environmental Change (with Mikael Fortelius & Christine Janis)  
 Convener, international workshop on Modelling Species, Traits, and Climate, Oct 2011,  
 Frankfurt a/Main, Germany (with David Polly)  
 Convener, international workshop on Modelling Species, Traits, and Climate, Sept 2012,  
 Zurich, Switzerland (with David Polly & Christoph Scheidegger) (forthcoming)  
 Chair of the iCCB (integrative Climate Change Biology), from 1.8.2012 onwards

***Personal funding & grants, past & current:***

<b>Year</b>	<b>€</b>	<b>Name</b>
2005	25.000	Helsingin sanomain 100-vuotissäätiö grant for working abroad (visiting scholar at Senckenberg museum, Frankfurt)
2006	21.600	Post-doctoral grant, Kone foundation
2007	22.800	Post-doctoral grant, Kone foundation
2011		University of Helsinki Post-Doctoral project (2011-2013) (salary + 3000 Eur annually)
2011		Research Fellowship, Alexander von Humboldt foundation (For 12 months) (2250 Eur/ month + 800 Eur for lab costs / month)

***Other projects:***

2003-2005 Academy of Finland (Eurasian Land Mammals in Deep Time: Environment, Climate and Evolutionary Dynamics, PI M. Fortelius) (member)  
 2004-2007 Academy of Finland (Linking developmental, computational and evolutionary biology of mammalian teeth, PI's J. Jernvall, M. Fortelius, I. Thesleff) (member)  
 2006-2009 Academy of Finland (Environments and Evolutionary Dynamics of Fossil and Recent Land Mammal Communities: Combining Field Work, Data Mining and Modelling Approaches, PI M. Fortelius) (member)  
 2007-2009 Ella and Georg Ehrnrooth Foundation: Regional climate change and mammal community evolution 15-5 million years ago (PI Mikael Fortelius, J.T Eronen as Co-PI)  
 2008-2010 Finnish Cultural Foundation. Rajat tieteenaloja yhdistävänä tekijänä (crossdisciplinary and integrative examination of boundaries in nature and society). (PI's H. Mannila, M. Fortelius & M. Löytönen, J.T. Eronen as a scientific coordinator)  
 2010- Member of Cryosphere-Atmosphere Interactions in a Changing Arctic

Climate (CRAICC) program (see: <http://www.atm.helsinki.fi/craicc/>)

***Invited lectures:***

Primate Society of Great Britain Winter Meeting: “Primate Evolution and the Environment”, London, Great Britain, 8-9.12.2005

2<sup>nd</sup> International Palaeontological Congress. Invited Keynote Presentation (w/ Fortelius). 17-21.6.2006, Beijing, China.

Community Earth System Models (COSMOS) General Assembly 2008, Finnish Meteorological Institute, Helsinki, Finland, 20-22.5.2008

The Role of Culture in Early Expansions of Humans: Human Expansions and Global Change in the Pleistocene: Methods and Problems, Frankfurt am Main, Germany, 16-19.11.2009

Annual NECLIME meeting: “Teleconnections between Eastern and Western Eurasia”, Izmir, Turkey, 28.9.-1.10.2009.

The Role of Culture in Early Expansions of Humans: Environment and culture of early humans in China and beyond, Frankfurt am Main, Germany, 26.2.-3.3.2012

***Referee:***

*Journals:*

Paläontologische Zeitschrift, Climate Dynamics, Contributions to Zoology, Journal of Human Evolution, Annales Zoologici Fennici, Philosophical Transactions of the Royal Society B., Global and Planetary Change, Palaeogeography, Palaeoclimatology, Palaeoecology (P3), Geology, Geobios, and for a book on Asian Neogene Mammal Biostratigraphy and Chronology (Columbia Univ. Press)

*Funding agencies:*

NWO (Netherlands Organisation for Scientific Research), NSF (National Science Foundation, USA) (multiple times)

***Students:***

*PhD:*

Juha Saarinen (U. Helsinki, supervised jointly with Mikael Fortelius and Heikki Seppä, started in 2010)

Kari Lintulaakso (U. Helsinki, supervised jointly with Mikael Fortelius. started in 2007)

Hui Tang (U. Helsinki, supervised jointly with Arne Micheels and Mikael Fortelius, started in 2008)

*M.Sc.:*

Juha Saarinen (completed in 2009)

Tuomas Jokela (started in 2007)

Teea Paasi (started in 2010, jointly supervised with Suvi Viranta)

***Visits to foreign institutes (longer than a week, no meetings):***

1.9.2011-30.6.2012

Alexander von Humboldt research fellow at Biodiversität und Klima Forschungszentrum (BiK-F), Frankfurt a. M., Germany. Host: Thomas Hickler, main focus on climate and

vegetation modeling and proxy comparison of the past ecosystems.

24.5.2011-3.6.2011

Visit to Indiana University, Bloomington, USA. Host: David Polly, main focus on species distribution modeling and climate

20.2.2009-5.3.2009 Visit to the Senckenberg Research Institute, Frankfurt a.M., Germany. Host: Arne Micheels, main focus on climate modeling and proxy comparison of past ecosystems

1.7.2006-30.1.2007

Visiting scientist at the Senckenberg Natural history museum, Frankfurt a.M., Germany.

Host: Volker Mosbrugger, main focus on Neogene mammal faunas and climate modeling.

21.1.2004-29.2.2004

Visiting scientist at the Staatliches Museum für Naturkunde, Stuttgart, Germany. Host:

Johanna Eder, main focus on understanding and combining plant macrofossil data with mammal data

8.10.-26.10.2003 & 10.6.-22.6.2005

Visiting scientist at the Bayerische Staatsammlungen für Paläontologie, Munich, Germany.

Host: Gertrud Rössner, main focus on analyzing the fauna of the Miocene Molasse basin of South Germany

1.9.2001-3.4.2002

Masters Thesis student at the Centre de Paleontologie stratigraphique et Paleoeologie,

Universite Claude Bernard – Lyon 1, Lyon, France. Host: Jean-Pierre Suc, main focus on analyzing Pliocene pollen samples from Italy.

Between 2003-2012 numerous short visits to museums, good experience of museum work concerning fossils and bone collections (Museum visits to Stockholm, Upsala, Madrid, Sabadell, Bratislava, for example)

***Invited public appearances (lectures etc, not interviews):***

Science Forum (Tieteen päivät) 7.-11.1.2009 speaker, Session on Human Evolution

(Ihmisen evoluutio), title: On the environmental context of Human evolution (Ihmisen evolution ympäristökonteksti)

Science Forum (Tieteen päivät) 12.-16.1.2011 speaker, Session on Climate change (Miten ilmasto muuttuukaan), title: Climate changes in millions of years (Ilmastonmuutoksia miljoonien vuosien mittakaavassa)

***International meetings with presentation (total more than 30, here most important):***

ESF programme: EEDEN Paleobiology Working group meeting, Frankfurt a.M., Germany, 11 – 13 November 2002

European Science Foundation (ESF) programme: Environments and Ecosystem Dynamics of Eurasian Neogene (EEDEN) Plenary meeting (The Middle Miocene Crisis), Frankfurt a.M., Germany, 13 - 17 November 2002

European Science Foundation (ESF) programme: Environments and Ecosystem Dynamics of Eurasian Neogene (EEDEN) Plenary meeting, Stara Lesna, Slovakia, 12-15 November 2003.

European Science Foundation (ESF) programme: Environments and Ecosystem Dynamics of Eurasian Neogene (EEDEN) Plenary meeting, Crete, Greece, on 4-6 November 2004.

Annual NECLIME meeting: “Neogene Climate and Vegetation Changes in Eastern

Europe/Western Central Asia – the surrounding of the Black Sea”, Sofia, Bulgaria, 1-4.10.2005

Primate Society of Great Britain Winter Meeting: “Primate Evolution and the Environment”, London, Great Britain, 8-9.12.2005

NECLIME working group meeting "climate modelling and comparison with proxy data", 12.5.2006, Frankfurt a. M., Germany

2nd International Palaeontological Congress. Invited Keynote Presentation (w/ M. Fortelius). 17-21.6.2006, Beijing, China.

ETE (Evolution of Terrestrial Ecosystems) program, The Paleontological Powers of Ten workshop, Washington D.C., U.S.A. 12-16.9.2007

Annual NECLIME meeting: ”Mio/Pliocene climate in Eastern and Western Eurasia: Comparing data from Europe and China”, Bratislava, Slovakia, 25-28.10.2007

European Geosciences General Assembly 2008, Vienna, Austria, Session SPP16: "Paratethys - Mediterranean - Indopacific climatic, biotic and sedimentologic evolution", 12-18.4.2008

Community Earth System Models (COSMOS) General Assembly 2008, Finnish Meteorological Institute, Helsinki, Finland, 20-22.5.2008

Annual NECLIME meeting:” The Neogene of Eurasia: spatial gradients and temporal trends”, Bonn, Germany, 3.9.2008.

European Geosciences General Assembly 2009, Vienna, Austria, Session SPP17: "Paratethys - Mediterranean - Indopacific climatic, biotic and sedimentologic evolution", 19-24.4.2009

Annual NECLIME meeting:” Teleconnections between Eastern and Western Eurasia”, Izmir, Turkey, 28.9.-1.10.2009.

The Role of Culture in Early Expansions of Humans: Human Expansions and Global Change in the Pleistocene: Methods and Problems, Frankfurt am Main, Germany, 16-19.11.2009

3rd International Palaeontological Congress. Session organizer, “From teeth to Tibet - new techniques and views on mammals and Cenozoic environmental change”, London, U.K., 28.6-3.7.2010.

### ***Collaborators and Other Affiliations:***

Most important ongoing collaborations (with active research leading to scientific papers):

*Prof. Thomas Hicker (BiK-F, Frankfurt a/Main, Germany): Climate and vegetation modeling and proxy comparison of the ecosystems during the past 23 Ma*

*Prof. Andreas Mulch (BiK-F, Frankfurt a/Main, Germany): North American Paleogene uplift and environmental change, Eurasian Neogene uplift and environmental change*

*Prof. Christine Janis (Brown University, Providence, U.S.A.): analyzing North American fossil mammal data, and integrating it to NOW-database*

*Prof. P. David Polly (Indianan University, Indiana, U.S.A.): Species Distribution Modeling, Analysing & datamining present day North American mammal data, eometrics*

*Acad. Prof. Jukka Jernvall (University of Helsinki, Finland): Spatial patterns of greater bamboo lemurs in Madagascar and their past distribution*

*Prof Mikael Fortelius (University of Helsinki, Finland): NOW-database, analysis of Eurasian fossil mammal data*

*Prof. Catherine Graham (Stony Brook Univ., NY, USA): fossil mammals, phylogeny and traits in relation to climate and environment*

*Dr. Jan Schnitzler, Dr. Susanne Fritz & Dr. Christian Hof (BiK-F, Frankfurt a/Main, Germany): Fossil mammals and phylogeny*

*Dr. Torsten Utescher (Bonn Univ., Germany): Comparing fossil mammal and plant environmental proxies*

*Dr. Kai Puolamäki (Aalto University, Finland): datamining of global ecometric mammal & climate data, method development for ecosystem studies*

*Dr. Francisco Borja Figueirido Castillo, (University of Málaga, Spain): Quantitative paleobiological characterization of the Cenozoic mammalian faunas in relation to global climate change*

*Other collaborators and Co-Editors. Anu Kaakinen (U. Helsinki), Majid Mirzaie (U. Helsinki), Tang Hui (U. Helsinki), Laura Säilä (U. Helsinki), Alistair Evans (Monash U.), Ian Corfe (U. Helsinki), Volker Mosbrugger (Senckenberg NHM), John Damuth (U. California), Angela Bruch (Senckenberg NHM), Ben Passey (Johns Hopkins U.) Zhang Zhaoqun (IVPP China), Liu Liping (IVPP China), Gertrud Rössner (BSP Munich), Marianne Fred (Åbo Akademi), Nils Stenseth (U. Oslo), Ray Bernor (NSF), Lorenzo Rook (U. Florence), Pasquale Raia (U. Naples), Francesco Carutenuto (U. Rome), Chris Preston (Biol. Records Centre, UK), Alexander Sennikov (FMNH, Finland), Pertti Uotila (FMNH, Finland), Diana Puskina (U. Helsinki), Alexander Tesakov (Geological institute, Moscow), Jordi Agustí (U. Tarragona), Isaac Salazar-Ciudad (U. Barcelona), Christoph Scheidegger (Swiss Federal Institute for Forest, Snow and Landscape Research, WSL), Bob O'Hara (BiK-F, Frankfurt), Matthew Forrest (BiK-F, Frankfurt), Felix Portmann (BiK-F, Frankfurt)*