

N.-Han Tran

DOCTORAL RESEARCHER IN EVOLUTIONARY BIOLOGY

Department of Human Behavior, Ecology and Culture, Max Planck Institute for Evolutionary Anthropology
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Experience

Max Planck Institute for Evolutionary Anthropology

DOCTORAL RESEARCHER ON INFORMATION COMPLEXITY IN MATERIAL CULTURE

Leipzig, Germany

Sep. 2018 - PRESENT/ February 2022

Department of Psychological Methods, University of Amsterdam

RESEARCH ASSISTANT

Amsterdam, The Netherlands

Dec. 2017 - Aug. 2018

Department of Social Psychology, University of Amsterdam

RESEARCH ASSISTANT

Amsterdam, The Netherlands

Dec. 2016 - Jul. 2017

Department of Aviation and Space Psychology, German Aerospace Center

RESEARCH ASSISTANT

Hamburg, Germany

Aug. 2015 - Sep. 2015

Department of Languages, Literature and Media, University of Hamburg

TECHNICAL ASSISTANT

Hamburg, Germany

Apr. 2015 - Aug. 2016

Clinic for Psychiatry and Psychotherapy, Asklepios Klinik Nord, Hamburg

PSYCHOTHERAPY ASSISTANT

Hamburg, Germany

Jul. 2014 - Oct. 2014

Integrated Climate System Analysis and Prediction (CliSAP), University of Hamburg

RESEARCH ASSISTANT

Hamburg, Germany

Apr. 2014 - Aug. 2014

Education

University of Amsterdam

MSc (RESEARCH) IN PSYCHOLOGICAL METHODS

Amsterdam, The Netherlands

Sep. 2016 - Jul. 2018

University of Hamburg

BSc IN PSYCHOLOGY

Hamburg, Germany

Oct. 2013 - Jul. 2016

Honors & Awards

INTERNATIONAL

2021 **Best Presentation Award**, Culture Conference (60 €)

Stirling, UK

2018 **Graduate Travel Award**, Psychonomic Society Conference 2018 (1000 \$)

New Orleans, U.S.A

2017 **Graduate Travel Award**, BITSS Research Transparency and Reproducibility Training (1000 £)

London, UK

DOMESTIC

2013 - 18 **Scholarship**, Heinrich–Boell Foundation (Heinrich-Böll Stiftung, approx. 60,000 €)

Berlin, Germany

2015 - 17 **Scholarship**, Deutschlandstiftung Integration (Geh-Deinen-Weg, approx. 2000 €)

Berlin, Germany

Publications

Tran, N.-H. and Beheim, B. A. (in prep) Differential skill ontogeny in two knowledge-intensive strategy games.

Tran, N.-H., Kucharský, Š., Waring, T., Atmaca, S., & Beheim, B. A. (2021) Limited Scope for Group Coordination in Stylistic Variations of *Kolam* Art. *Frontiers in Psychology*, 12, 742577. <https://doi.org/10.3389/fpsyg.2021.742577>

Bourgon, N.,..., Tran, N.-H.,..., Hublin, J.-J., Tütken, T.. (2021) Diet of a Late Pleistocene early modern human from tropical Southeast Asia inferred from zinc and carbon isotopes. *Journal of Human Evolution*, 161, 103075. <https://doi.org/10.1016/j.jhevol.2021.103075>

Pederzani, S. (...) Tran, N.-H., Tsanova, T., Hublin, J.-J. (2021) Subarctic climate for the earliest *Homo sapiens* in Europe. *Science Advances*, 7(39), eabi4642. <https://doi.org/10.1126/sciadv.abi4642>

Kucharský, Š., Tran, N.-H., Veldkamp, K., Raijmakers, M. and Visser, I. (2021) Hidden Markov Models of Evidence Accumulation in Speeded Decision Tasks. *Computational Brain and Behavior*. <https://doi.org/10.1007/s42113-021-00115-0>

Tran, N.-H., Waring, T., Atmaca, S., & Beheim, B. (2021). Entropy trade-offs in artistic design: A case study of Tamil *kolam*. *Evolutionary Human Sciences*, 3, E23. <https://doi.org/10.1017/ehs.2021.14>

Tran, N.-H., van Maanen, L., Heathcote, A., & Matzke, D. (2021). Systematic Parameter Reviews in Cognitive Modeling: Towards a Robust and Cumulative Characterization of Psychological Processes in the Diffusion Decision Model. *Frontiers in Psychology*, 11, 608287. <https://doi.org/10.3389/fpsyg.2020.608287>

Derks, K., Burger, J., van Doorn, J., Kossakowski, J. J., Matzke, D., ..., Tran, N.-H.,..., Wagenmakers, E.-J. (2018). Network Models to Organize a Dispersed Literature: The Case of Misunderstanding Analysis of Covariance. *Journal of European Psychology Students*, 9(1), 48–57. <https://doi.org/10.5334/jeps.458>

Skills

Programming	R (expert), Stan (expert), Python (advanced), Bash (advanced)
Other Coding	Git and GitHub (expert), LaTeX (expert), Mathematica (beginner)
Web	Markdown (expert), CSS (beginner)
Database Management	Database design, data cleaning, SQL (beginner), JSON (expert), YAML (expert)
Presentation	MS PowerPoint, Keynote, R Markdown
Languages	German (native speaker), English (fluent), Vietnamese (fluent), French (basic)

Talks & Presentations

Cultural Evolution Society Conference

CONFERENCE TALK

- Constraints on Complexity in Artistic Traditions

Hokkaido, Japan

June 2021

Culture Conference

CONFERENCE TALK

- Constraints on Complexity in Artistic Traditions

Stirling, UK

June 2021

Interacting Minds Centre

INVITED TALK

- Disentangling Transmission Processes in Material Culture: High-resolution present-day data can inform the study of knowledge transmission in archaeological data

Aarhus, Denmark

October 2020

European Association of Archaeologists Annual Meeting

CONFERENCE TALK

- Disentangling Transmission Processes in Material Culture: High-resolution present-day data can inform the study of knowledge transmission in archaeological data

Budapest, Hungary

August 2020

Psychonomic Society Annual Meeting

POSTER PRESENTATION

- Empirical Priors for Evidence Accumulation Models.

New Orleans, U.S.A

Nov. 2018

Selected Software and Project Repositories

Limited scope for group coordination for stylistic variations in *kolam* art

[HTTPS://GITHUB.COM/NHTRAN93/KOLAM_COORDINATION](https://github.com/nhtran93/kolam_coordination)

Published Article

2021

Entropy trade offs in artistic design

[HTTPS://GITHUB.COM/NHTRAN93/KOLAM_SIGNALING](https://github.com/nhtran93/kolam_signaling)

Published Article

2021

Systematic Parameter Reviews in Cognitive Modeling

[HTTPS://GITHUB.COM/NHTRAN93/DDM_PRIORS](https://github.com/nhtran93/DDM_priors)

Published Article

2021

3rd Annual ESLR Workshop 2019 Website

[HTTPS://GITHUB.COM/NHTRAN93/ESLR2019](https://github.com/nhtran93/eslr2019)

Website

2019

kolam

[HTTPS://GITHUB.COM/NHTRAN93/KOLAM](https://github.com/nhtran93/kolam)

R Package

2018

Parameter Estimation with Maximum Likelihood

[HTTPS://R.TQUANT.EU/TQUANT/GLASGOWAPPS/GROUP11_ESTIMATION/](https://r.tquant.eu/tquant/glasgowapps/group11_estimation/)

Online Application

2018

Teaching Experience

German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes)

SEMINAR LEAD & LECTURER

Germany

March 2022 - December 2023

- Menschliche Verhaltensökologie: Die Evolution von Kultur und (sozialen) Verhalten

Software Carpentry Workshop

LECTURER

Leipzig, Germany

November 2021

- R and Git for Reproducible Scientific Analysis

Software Carpentry Workshop

LECTURER

Leipzig, Germany

November 2020

- R and Git for Reproducible Scientific Analysis

Software Carpentry Workshop

TEACHING ASSISTANT

Leipzig, Germany

December 2019

- R and Git for Reproducible Scientific Analysis

Model-based Neuroscience Summer School

TEACHING ASSISTANT

Amsterdam, Netherlands

July 2018

- Approaches to analyses in model-based cognitive neuroscience.
- Bayesian cognitive modeling.

START Foundation

LECTURER

Sankt Peter-Ording, Germany

July 2017

- Full-time lecturer for the one-week intensive course "Introduction to Research for Young Scientists".

Academic Service

2021-2022 **Statistics Consultant**, Scripts and Bytes, Max Planck Institute for Evolutionary Anthropology

2019-2020 **External PhD Representative**, Max Planck Institute for Evolutionary Anthropology

2019 **Lead Organizer**, Seminar on research ethics in evolutionary biological sciences at MPI EVA

2019 **Organizer**, 3rd Annual Early-career Social Learning Researchers Society Workshop

2017-2019 **Spokesperson of scholarship holders**, Heinrich Böll Stiftung

2017-2019 **Representative of scholarship holders at the general assembly**, Heinrich Böll Stiftung

References

Dr. Bret Beheim

bret_beheim@eva.mpg.de

DEPARTMENT OF HUMAN BEHAVIOR, ECOLOGY AND CULTURE, MAX PLANCK INSTITUTE FOR EVOLUTIONARY ANTHROPOLOGY

Dr. Dora Matzke

d.matzke@uva.nl

DEPARTMENT OF PSYCHOLOGICAL METHODS, UNIVERSITY OF AMSTERDAM

Dr. Timothy M. Waring

timothy.waring@maine.edu

MITCHELL CENTER FOR SUSTAINABILITY SOLUTIONS, SCHOOL OF ECONOMICS, UNIVERSITY OF MAINE