



MPI-SHH

SUMMER SCHOOL 2021

Doorway to Human History



SYLLABUS

BOOKLET



Date

16-27 August 2021
Monday to Friday



Time

09:00 - 17:00
*Central European Summer
Time (CEST)*



Website & E-Mail

<https://summerschool.shh.mpg.de/>
summerschool@shh.mpg.de

WELCOME TO THE FIRST EDITION OF THE

SUMMER SCHOOL 2021



Doorway to
Human
History

The main goal of the summer school is to showcase the **interdisciplinary work** that is happening at our institute to further our understanding of human history.

The **first week** will consist of lectures introducing theoretical knowledge of archaeology, archaeogenetics, as well as linguistic and cultural evolution. In the **second week**, the focus will be on case studies illustrating interdisciplinary projects that combine these three fields of study.

Workshops on scientific methods and soft-skill courses will be scheduled over the two weeks.

Furthermore, there will be **three invited keynote talks** from distinguished researchers as well as a **round table discussion** between three senior scientists from our institute.

MASTER SCHEDULE

CEST	Monday 16.08	Tuesday 17.08	Wednesday 18.08	Thursday 19.08	Friday 20.08
8:45 AM	- Check-in & Technical help -				
9:00 AM	welcome speech	L2L	L3L	L5L	L7L
9:15 AM					
9:30 AM	L1L				
9:45 AM					
10:00 AM					
10:15 AM					
10:30 AM	Tea Break				
10:45 AM	Long Break	G7W	G4L	G5W	G9K
11:00 AM					
11:15 AM	G1L				
11:30 AM					
11:45 AM					
12:00 PM					
12:15 PM	Lunch Break				
12:30 PM	Long Break	A2L	A3L	A4L	S1
12:45 PM					
1:00 PM	A1L	G2L	A3W	C3	
1:15 PM					
1:30 PM					
1:45 PM					
2:00 PM	Tea Break				
2:15 PM	Long Break				
2:30 PM					
2:45 PM					
3:00 PM					
3:15 PM					
3:30 PM					
3:45 PM	A5L	A6L	G8W	C1	S3
4:00 PM					
4:15 PM	Tea Break				
4:30 PM	S2	C8	A8W	A7W	Final Posters Presentation
4:45 PM					

CEST	Monday 23.08	Tuesday 24.08	Wednesday 25.08	Thursday 26.08	Friday 27.08
8:45 AM	- Check-in & Technical help -				
9:00 AM	L6W	S5	C6	C5	G6L
9:15 AM					
9:30 AM	L9K	G3W	A9K	C2	S4
9:45 AM					
10:00 AM					
10:15 AM					
10:30 AM	Tea Break				
10:45 AM	Long Break				
11:00 AM					
11:15 AM	A5L	A6L	G8W	C1	S3
11:30 AM					
11:45 AM					
12:00 PM					
12:15 PM	Lunch Break				
12:30 PM	Long Break				
12:45 PM					
1:00 PM					
1:15 PM					
1:30 PM					
1:45 PM					
2:00 PM	Tea Break				
2:15 PM	S2	C8	A8W	A7W	Final Posters Presentation
2:30 PM					
2:45 PM					
3:00 PM					
3:15 PM					
3:30 PM					
3:45 PM	S2	C8	A8W	A7W	Final Posters Presentation
4:00 PM					
4:15 PM	Tea Break				
4:30 PM	S2	C8	A8W	A7W	Final Posters Presentation
4:45 PM					

ARCHAEOLOGY



A1L Introduction to archaeology

J. Cerasoni

A2L Introduction to archaeobotany

K. Ashastina & T. Billings

A3L Introduction to plant macrofossil analysis

K. Ashastina & T. Billings

A3W Plant macrofossil analysis workshop

K. Ashastina & T. Billings

A4L Zooarchaeology - faunal remains in archaeological contexts

N. Amano

A5L ZooMS - the application of peptide mass fingerprinting to identify faunal remains

C. Peters

A6L Introduction to palaeoproteomics

L. Tang

A7W Late Quaternary Megafauna Extinctions: State of the debate

C. Peters & K. Ashastina


A8W Exavation and sampling methodologies

J. Cerasoni

A9K Keynote - "A new axial age? Epoch-making changes around 3000 BCE in Southwest Asia and Europe"

E. Rosenstock

LINGUISTIC & CULTURAL EVOLUTION

- 
- L1L** Introduction to linguistic & cultural evolution
A. Tjuka
- L2L** Linguistic typology
H. Skirgård
- L3L** Loanwords and narrative historical linguistics
R. Bjørn
- L5L** Introduction to cognitive science and
neuroscientific methods
A. Tsuchiya & Y. Kim
- L6W** Language attitudes
O. Shcherbakova
- L7L** Bayesian phylogenetic linguistics
A. Tjuka, N. Hübler & O. Shcherbakova
- L9K** Keynote - "Nature and Culture in Language
Evolution"
B. Bickel

ARCHAEOGENETICS



G1L Introduction to archaeogenetics

S. Carlhoff & J. Fellows Yates

G2L Introduction to population genetics

M. S. Wu & S. Carlhoff

G3W Treemix

S. Carlhoff & M. S. Wu

G4L Microbial archaeology

I.M. Velsko & Z. Fagernäs

G5L Hands on introduction to ancient microbiome analysis

M. Borry

G6L Ethics in archaeogenetics

S. Carlhoff

G7W Introduction to NGS DNA sequencing and processing

J. Fellows Yates

G8W Phylogenetics workshop

M. Michel

G9K Keynote - "Seeing Together: a transdisciplinary view of our shared human past"

C. Warinner

INTERDISCIPLINARY



- C1** Indo-European: the homeland debate anno 2021
R. Bjørn & R. Tegethoff
- C2** Hong-Mien (Southeast Asia linguistic area)
M. S. Wu & S. Carlhoff
- C3** Archaeolinguistics: the Transeurasian Case
M. Robbeets
- C5** Bantu languages and archaeology
A.-M. Fehn & J. Cerasoni
- C6** Genetic and linguistic relationships in the Americas
R. Barquera & S. Auderset
- C8** Introduction to tibetan archaeology
L. Tang
- S1** Graphic design
M. O'Reilly
- S2** Digital scientific illustration and design
J. Cerasoni
- S3** Interdisciplinary working
E. Orfanou & N. Uomini
- S4** Version control and data curation
with Git and GitHub
C. Rzymiski
- S5** LaTeX for Linguists+
S. Auderset

USEFUL INFORMATION AND LINKS

Every class will be 1.5 hours (except for the introductory courses on day 1), and will start off with a short 1-minute introduction by the moderator.

The last 15 minutes of each presentation will be dedicated for any questions. For each class, teachers will be available on Gathertown in the ensuing break for any further enquiry or comment.

Zoom

zoom.us/j/4779653699?pwd=djBpckJKbFRJc0RPdUt6WlFuc1lxQT09

Meeting ID: 477 965 3699

Passcode: SCHOOL2021

username should be your FULL NAME

Gathertown

gather.town/invite?token=if3zAUBu

(access code: Social2021)

username should be your FULL NAME

GitHub repository

Archaeogenetics materials

github.com/MPI-SHH-SummerSchool/dag-material

Archaeology materials

github.com/MPI-SHH-SummerSchool/da-material

Linguistic & Cultural Evolution materials

github.com/MPI-SHH-SummerSchool/dlce-material

Case Studies and Methodologies materials

github.com/MPI-SHH-SummerSchool/case-study-and-methodology-material

Student Mattermost Channel

Register Account

mattermost.eva.mpg.de/signup_user_complete/?id=sha6xb7tjf8qmfsjxni8iffwtr

Log in

mattermost.eva.mpg.de/shhsummerschool/channels/town-square

username should be your FULL NAME

POSTER PRESENTATIONS

To receive course credit for the summer school, participants must prepare a poster on a **topic of interest** and present it at the poster session.

The poster presentation will take place on the last day of the summer school on the Gathertown platform. You can prepare a poster in advance or during the two weeks of the summer school.

It is also possible that you create and present a poster with one or two other summer school participants. This way you can find a common interest and recap the content of the classes.

You can present a poster on a topic of your choice, but note that it should relate to the general theme "Doorway to Human History."

Although posters will not be graded, only participants who present a poster will receive 8 ETCS and a certificate of attendance.

We will offer **two graphics courses** (August 20 and 23) where you will learn the skills necessary to create a scientific poster.

You can use your own poster template or use the template provided by the MPI:

shh-cloud.gnz.mpg.de/index.php/s/KbMysA6TiQBncja

KEYNOTE SPEAKERS

Prof. Dr. Balthasar Bickel

Department of Comparative Language Science, University of Zurich

Balthasar Bickel holds the chair of general linguistics at the Department of Comparative Language Science, University of Zurich. He got his graduate training in the Cognitive Anthropology group at the MPI in Nijmegen and received his PhD in 1997 from the University of Zurich. After postdocs in Mainz and Berkeley and an assistant professorship in Zurich, he became a professor of linguistic typology at the University of Leipzig in 2002, and then moved to Zurich in 2011. In 2020 he became director of Switzerland's National Centre of Competence in Research (NCCR) "Evolving Language".

Dr. Eva Rosenstock

Einstein Center Chronoi and Freie Universität Berlin

Eva Rosenstock studied Pre- and Protohistory, Physical Anthropology and Comparative Linguistics in Tübingen and Durham/UK. She received her doctorate in Prehistoric Archaeology from Tübingen University in 2005 with a dissertation on Neolithic tell settlements in Southwestern Asia and Southeastern Europe, for which she was awarded the travel grant of the German Archaeological Institute 2006/2007.

From 2006 to 2018, Eva was a research associate and lecturer at Freie Universität Berlin. Since 2018, Eva has been a research associate at the interdisciplinary Einstein Center Chronoi Berlin and has been teaching at Freiburg University. Her projects include excavations at the 6th millennium BCE settlement of Çatalhöyük West in Central Anatolia (2006–2013, funded i.a. by the Alexander-von-Humboldt-Stiftung), the Emmy Noether Junior Research Group "LiVES" investigating human stature in prehistory (2011–2019, funded by the German Research Foundation), aspects of cattle traction in prehistory and the archaeology of dairying, as well as questions of time reckoning and time management during neolithization.

Prof. Dr. Christina Warinner

Research Group Leader at MPI for the Science of Human History

Dr. Christina Warinner earned her Ph.D. from Harvard University in 2010, and received her postdoctoral training at the University of Zurich (2010–2012) and the University of Oklahoma (2012–2014). She is an Assistant Professor of Anthropology at Harvard University and a Professor of Biological Sciences at the Friedrich Schiller University, and since 2016 she holds a Group Leader position at the Max Planck Institute for the Science of Human History in Jena, Germany. Dr. Warinner is pioneering the study of ancient human microbiota, and in 2014 she published the first detailed metagenomic and metaproteomic characterization of the ancient human oral microbiome. Her research has earned her Honorable Mention for the Omenn Prize, an annual prize for best article published on evolution, medicine and public health, and her ancient microbiome findings were named among the top 100 scientific discoveries of 2014 by Discover Magazine. She is a US National Academy of Sciences Kavli Fellow (2014) and a TED Fellow (2012). Her TED Talks on ancient dental calculus and the evolution of the human diet have been viewed more than 2 million times.

In addition to her research, she is actively engaged in public outreach and created the Adventures in Archaeological Science coloring book, now available in thirty languages, including many indigenous and underrepresented languages.

ROUND TABLE PANELISTS

Dr. Katerina Douka

Principal Investigator of the FINDER Research Group, Archaeology

My work traverses the interface of archaeological enquiry and analytical science and revolves around the spatio-temporal pattern of human dispersals and extinctions across Eurasia, whether these concern Neanderthals, Denisovans or modern humans. I am greatly interested in developments in radiometric dating and chronological precision (^{14}C and Bayesian statistics) and the broader use of peptide mass fingerprinting (Zooarchaeology by Mass Spectrometry) in human evolution and as a zooarchaeological tool.

Dr. Wolfgang Haak

Leader of the Molecular Anthropology Group, Archaeogenetics

My group works at the interface of human genetics, medical sciences, archaeology, anthropology, and linguistics. Our main aim is to investigate and evaluate ancient human genome-wide data in the light of data from neighbouring disciplines to generate a detailed and comprehensive portrait of human prehistory over the last 20,000 years. Our portfolio ranges from global outlooks on population affinities, migrations and past demography to intra-group relationships, and also encompasses the interaction with and response to changing environmental factors, such as climate, diet and disease.

Dr. Mary Walworth

*Leader of the Comparative Oceanic Linguistics (CoOL) Group,
Linguistic and Cultural Evolution*

My research focuses on the evolution and interaction of Oceanic languages, specifically in Polynesia and Vanuatu. Through language documentation and comparison of many understudied languages in these areas, I work to uncover not only historical linguistic relationships but also historical relationships between the speakers of these languages (contact networks, spheres of exchange and interaction, and population movement). I currently co-lead the Comparative Oceanic Linguistics project.

ORGANISING COMMITTEE

Rasmus G Bjørn

Archaeolinguistic Research Group

I use comparative linguistics to analyze the spread of ideas and material culture in prehistory by examining loanwords with reference to auxiliary data such as archaeology and genetics. My PhD project 'Crops, Fruits, and Words' researches this phenomenon in Central Asia, departing from Robert Spengler's work on assembling the archaeobotanical data for the region. I particularly look at the interfaces between the various language groups, e.g. Iranian, Turkic, Burushaski, and Tocharian.

Selina Carlhoff

Archaeogenetics

Coming from a marine biology background, even after 2 years I'm still excited to combine my interests in evolutionary biology and history for my PhD in archaeogenetics. My projects at the MPI-SHH investigate transitional periods in the history of Southeast Asia and how these affected the genetic structure of the people living there.

Jacopo Niccolò Cerasoni

Pan-Ev Lab

Jacopo Niccolò Cerasoni is a Doctoral Researcher in the Pan-Ev Research Group. His research interests focus upon the study of Pleistocene hominin technological behaviour, human-environment relationships and field survey and excavation techniques.

Blanca Vidal Orga

DogStudies Lab

Blanca Vidal Orga is a Doctoral Researcher in the DogStudies Lab at the Max Planck Institute for the Science of Human History in Jena, Germany. She is a psychologist with an additional interdisciplinary background in Neuroscience, Philosophy, and Evolutionary Science. Working in animal cognition - particularly dogs and non-human great apes - using behavioral observation and a comparative approach, her research interests include communication, domestication, and a topic focus in interspecies cooperative behavior.

Carli Peters

Archaeology

Carli is a PhD student at the Max Planck Institute for the Science of Human History. Her research aims to gain a better understanding of the spatio-temporal distribution of extinct megafaunal species in Australia by improving identification rates of fossil fauna at Late Pleistocene Australian sites using ZooMS (Zooarchaeology by Mass Spectrometry).

Annika Tjuka

Linguistic and Cultural Evolution

My area of expertise is semantics, specifically semantic typology. I'm fascinated by the mental lexicon and the cognitive basis of semantic networks. My research is looking at language from a cross-linguistic perspective. So far, I conducted the first systematic study of body part terms for objects and landscape features in my Master's thesis. And I'm currently a PhD at the MPI for the Science of Human History.

Ayaka Tsuchiya

The Minds & Traditions research group

Ayaka Tsuchiya is a Doctoral Researcher in cognitive neuroscience. She is interested in neural bases of auditory information (voice, speech, music) process in the human brain. Her PhD project focuses on kinship recognition in human voice and its relationship with cultural backgrounds.

Mei-Shin Wu

Computer-Assisted Language Comparison

Mei-Shin Wu is a Doctoral Researcher in the independent research group "Computer-Assisted Language Comparison" at the Max Planck Institute for the Science of Human History. She is a data analyst, specifically analysing historical linguistics data and genetic data.

SOCIAL EVENTS

Gathertown meet-up

Monday, Aug 16 from 5.30pm

On the first day you will have the opportunity to meet other students, the organizing committee and some teachers. We will meet virtually in Gathertown! You can bring your favorite drinks and snacks to enjoy the evening. The Gathertown room will stay open during the 2 weeks of summer school for you chat during breaks or meet up with other students.

Expert round table

Thursday, Aug 19 from 5.30pm to 7pm

The round table will be a discussion on the question "Why do we need interdisciplinary research?". Our panelists are senior researchers and experts in their respective fields: Dr. Katerina Douka (Archaeology), Dr. Wolfgang Haak (Archaeogenetics), Dr. Mary Walworth (Linguistic and Cultural Evolution). They will talk about their projects and experiences and you will have the opportunity to ask your own questions during the Q&A session.

Q&A session with PhD students

Friday, Aug 20 from 3.30pm

In this session you can join us in Gathertown where the organizing committee (Rasmus, Selina, Carli, Annika, Mei-Shin, Ayaka, Jacopo) will answer all your questions about what it is like to be a PhD. If you are a PhD student, we can share experiences and talk about our projects.

Pub quiz

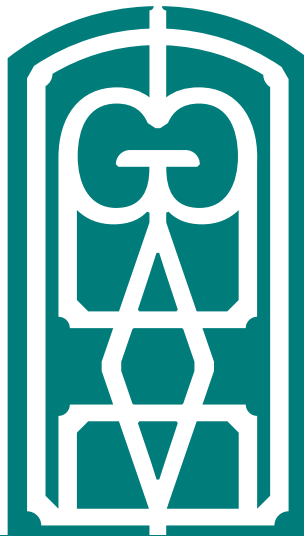
Wednesday, Aug 25 from 5.30pm

The pub quiz is your chance to test your knowledge in the areas of archaeology, archaeogenetics, and linguistic and cultural evolution. We will form teams of four to five students and the moderator will ask questions from all three areas. The winning team will receive a certificate to commemorate their victory.

Curious to know more about our teachers
(biography and contact information) and course
contents?

Please consult the Summer School website at:

summerschool.shh.mpg.de



Get in touch or follow us on our social networks for
daily updates!



@SummerMPISHH

