

CES 2024 CONFERENCE PROGRAMME

MONDAY 9TH SEPTEMBER - MORNING



08:30

- Registration

09:00

- Conference Opening (TLC042)

09:15

- **Keynote: Prof Barry Hewlett "From hunter-gatherer social learning to infectious disease control: Fifty years of utilising evolutionary approaches to culture" (TLC042)**

10:15

- Lightning Talk Session comprising 6 talks (TLC042)

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| Adolescents' own-gender majority biased social learning and educational choices Lara Wood | Competitive incentives reduce honesty and social influence Robin Watson | Memory, innovation, and vertical transmission Madeleine Ammar |
| Evolutionary dynamics of genes and culture under migration Niccole Porras Alvarez | Sexiness and cumulative cultural evolution: are they a match? Arguments from birdsong literature Franny C. Geller | What would be an appropriate control condition in cumulative cultural evolution experiment? Maxime Derex |

10:55

- Coffee/Tea Break (*top floor*)

11:15

- Parallel Session 1 comprising 4 themes:

| Animal Culture I (TLC101) | Language Transmission (TLC106) | Marriage & Reproduction (TLC113) | Cross-Cultural Studies I (TLC123) |
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| Great tits use payoff-biased learning when encountering spatial variability Michael Chimento | Universal statistical properties of language emerge in a cultural evolution experiment Lucie Wolters | Compatibility between childcare and subsistence tasks during collaborative foraging of BaYaka mothers in Congo Basin Amandine Visine | Information & motor constraints limit melodic diversity across cultures John McBride |
| Language-like efficiency and structure in house finch song Mason Youngblood | Language allows cultural evolution to improve world models Alexandre Bluet | Post-marital residence rules and transmission pathways in cultural hitchhiking Simon Carrignon | Melodic and rhythmic regularities of music around the world reveal independent cultural clusters Harin Lee |
| Cultural drivers of stone-tool use in Balinese long-tailed macaques Camilla Cenni | Language production biases increase word similarity through cultural transmission Aislinn Keogh | Two universal pathways in demographic transition Kenji Itao | Testing the role of culture in theory of mind: a text analytic approach Joseph Watts |
| New methods for identifying social norms in wild animal populations. Susan E. Perry | Reconstructing the evolutionary history of the geographical distribution of Indo-European languages in South America Takyuya Takahashi | Explaining the Decline of Preferential Matrilineal Cross-Cousin (impal) Marriage among the Karo of Indonesia: An Epidemiological Approach to Cultural Evolution Geoff Kushnick | Analysing 'Mind-minded' Language Patterns Relating to Mental State Discussion Norms and Social Cognition in Three Cultures Rita Anne McNamara |

MONDAY 9TH SEPTEMBER - AFTERNOON



12:40

- Lunch (Top Floor)

13:40

- **Keynote: Dr Nicole Wen "Rituals in childhood: Exploring social group dynamics" (TLC042)**

14:45

- Lightning Talk Session comprising 4 talks (TLC042)

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| On the Reversing Effect of Cultural and Technical Evolution with Gilbert Simondon (1958) Nina Lendrin | Theoretical Puzzles and New Empirical Avenues around the Emergence of a New Pilgrimage Nicholas Restrepo |
| Buddhist, Not Buddhist, Sorta Buddhist? Tracking Religious Change Among Adolescents in Thailand Over a Decade. Arusa Panyakotkew | The use of cladistics to explore cultural diversity in Tupiguarani Tradition pottery from São Paulo State, Brazil Mercedes Okumura |

15:15

- Coffee/Tea Break (Top Floor)

15:35

- Workshop: Afrisos, Film making (TLC042)

16:35

- Leg Stretch

16:40

- Parallel Session 2 comprising 4 themes:

| Transmission Biases / SLS I (observational) (TLC101) | Social Organisation & Institutions (TLC106) | New Methods (TLC113) | Innovation & Creativity (TLC123) |
|--|---|--|---|
| Social Learning Strategies are Shaped by Reward Learning Björn Lindström | The Cultural Coevolution of Rice Farming and Collectivism in Japan Liam McClain | Identifying and Manipulating Complex Paths and Attractors in Human Cultural Evolution Fabian Tschofenig | Group-level homophily in metapopulation social networks can optimize the diffusion of innovations Matthew Adam Turner |
| Emotion-based Content Biases and Twitter Engagement: A Granular Analysis in the Context of the Danish Welfare State Petra de Place Bak | Self-organization in cultural systems Jérôme Michaud | Does literature evolve one funeral at a time? Oleg Sobchuk | Modelling the role of childhood play as a driver of innovation in cultural evolution Elena Miu |
| Cultural transmission of move choice in chess Egor Lappo | The social and psychological mechanisms at work in Zapotec cooperative institutions in Oaxaca, Mexico Cameron M. Curtin | Integrating Cultural Evolution in Plant Breeding Science: A Framework for Coevolution in Modern Knowledge Systems Maria Gerullis | Studying the interaction of selection and topology in simulated social networks using large-scale human singing experiments Manuel Anglada-Tort |
| Big Five Personality Differences in Conformity Biased Social Learning Jochen Gebauer | Trust-based cultural transmission can form polarising group identities Fredrik Jansson | Bayesian model of multiparental cultural transmission for reference network estimation Eita Nakamura | Cumulative Culture, Brain-Culture Coevolution, Innovation Andoni Sergiou |

18:05-19:30

- Poster session & drinks reception (Top Floor)

See end of programme for list of presenters

TUESDAY 10TH SEPTEMBER - MORNING



08:30

- Registration

09:00

- Introductions (TLC042)

09:15

- **Keynote: Prof Patricia Izar "A tough nut to crack: what research with wild capuchin monkeys reveals about the tradition of tool use" (TLC042)**

10:15

- Lightning Talk Session comprising 6 talks (TLC042)

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| Multi-level Selection of AI Behaviors Qiankun Zhong | What do other men think? Understanding (mis)perceptions of peer gender role ideology among young Tanzanian men Alexander M Ishungisa |
| Using eye-tracking to compare visual attention during apes' and children's observational learning of tool use Louise Mackie | The Role of Divine Role Models in Supporting Community Behavioural Codes in India Feryl Badiani |
| Language Racism and Colonialism: A Case Study of Uzbekistan Eldar Asanov | Innovation, diffusion and generalization of probe tool use in a group of tufted capuchin monkeys (<i>Sapajus libidinosus</i>). Henrique Rufo |

10:55

- Coffee/Tea Break - (Top floor)

11:15

- Parallel Session 3 comprising 4 themes:

| Language Evolution (TLC101) | Applications of CE to Societal Issues (TLC106) | Social Norms & Values (TLC113) | Social learning (experiments / observational) (TLC123) |
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| From the Boardroom to the Bedroom: The Expansion and Abstraction of Management as a Cultural Logic Amir Goldberg | Producing actionable cultural evolutionary science for decision-making: Recommendations and lessons learned from applied research in government Richard E. W. Berl | The emergence of symbolic norms: The norm spillover effect Xinyue Pan | Social learning requires mushroom body neurons in <i>Drosophila melanogaster</i> Sabine Nöbel |
| Reconstructing Proto-Uralic kinship Terhi Honkola | The cultural evolution of collective property rights for sustainable resource governance Jeffrey Andrews | Prosocial versus cultural normative underpinnings of cooperative behavior Asli Akdeniz | Developmental roots of information sharing Didar Karadag |
| Evolution of kinship lexicon is predicted by community structure Maisy Hallam | "Harmony through Prohibition": Cultural Insights on Food Taboos and Social Learning for Ecosystem Conservation among Cholanaickan, South India Seetha Kakkoth | Heterogeneity in social learning and network formation in the study of social norm change Lukas von Flüe | Social learning opportunities during women's subsistence trips among BaYaka foragers Haneul Jang |
| What a phylogeny of all the world's languages can teach us about the past, present and future of human cultural diversity Quentin Douglas Atkinson | Barriers and Opportunities in Applying Cultural Evolution to Sustainability Challenges: An Example from Zanzibar Monique Borgeroff Mulder | Social Satisficing: How a Simple Cognitive Constraint Governs Norm Emergence Douglas Guilbealt | Information worth sharing: Do children transmit generalisable or specific information to naïve social partners? Marina Bazhydai |

TUESDAY 10TH SEPTEMBER - AFTERNOON



12:40

- Lunch (with ECR networking event) (*Top Floor*)

13:40

- **Keynote: Prof Kevin Lala "Genes, culture, and scientific racism" (TLC042)**

14:45

- Lightning Talk Session comprising 4 talks (TLC042)

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| Does the emotional valence of prior interactions with a demonstrator influence overimitation in children? Rachel Harrison | A global test of synchrony and cooperation in song, speech, and chant Patrick Savage |
| "Because she's the same as me!" An explanation of children's model choice in social learning experiments Elizabeth E. Price | The Limits to Agency Franzi Poldy |

15:15

- Coffee/Tea Break (*Top Floor*)

15:35

- Workshop: Sapiens, science writing (TLC042)

16:35

- Leg Stretch

16:40

- Parallel Session 4 comprising 4 themes

| Social inequality & hierarchies (TLC101) | Transmission biases / SLS II (modelling & experiments) (TLC106) | Cultural Dynamics (TLC113) | Religion & Ritual (TLC123) |
|--|--|---|---|
| The long shadow of dominance: continuity of power seeking from apes to modern humans Drew Altschul | The Collective Wisdom and Madness Shaped by Static Network Topology Jingyu G Xi | Cross-cultural modeling of the evolution of harmony in popular music Fabian C. Moss | Global Variation in Religious Beliefs Tied to Geographical and Historical Proximity Joshua Conrad Jackson |
| Tightness-looseness across India Sakshi Sahakari | Social learning generates collective intelligence even among heterogeneous individuals Wataru Toyokawa | A quantitative study of the development of trans-Eurasian exchanges Helena Miton | The content and geo-cultural correlates of American religious sermon content Matthew I. Billet |
| Prestige Psychology Drives Human Societies Towards Autocracy Thomas J. H. Morgan | The Evolution of Similarity-Biased Social Learning Paul Smaldino | Cultural change fast and slow: Measuring and explaining cross-national variation in the speed of cultural change Nick Kay | The Cultural Attraction of Sneezing: Gossip, Omens, and Ritualized Responses William Buckner |
| The evolution of egalitarianism and genocidal behaviour to prevent extinction when facing fitness-enhancing adaptations Juan Perote-Peña | Sequence representation as an early step in the evolution of language and culture Anna Jon-And | An empirically-based scenario for the evolution of cultural transmission in the human lineage Ivan Colagè | Thinking about karma reduces third-party punishment in the United States and Singapore Cindel J. M. White |

18:30 - Midnight

- Conference dinner (**ticketed**) followed by drinks & Mason Youngblood DJ event (**open to all delegates, Undercroft bar**) at Durham Castle

WEDNESDAY 11TH SEPTEMBER - MORNING



08:30

- Registration

09:00

- Introductions (TLC042)

09:15

- **Keynote: Prof Kathleen Corriveau "The role of testimony in cultural learning" (TLC042)**

10:15

- Lightning Talk Session comprising 6 talks (TLC042)

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| Possession trance and cultural complexity in the Ethnographic Atlas Péter Rác | Wrath of Nature: Exploring Supernatural Revenge in Japanese Folklore Yo Nakawake |
| Consilience in the Theory of the Firm Fransisco Brahm | Carneiro's Database: Old New Dataset for Cultural Evolution Research Václav Hrnčíř |
| Cultural drivers of numeral base diversity Angela Chira | Wildlife conservation and management as an evolving cultural practice Lily van Eeden |

10:55

- Coffee/Tea Break (Top Floor)

11:15

- Parallel Session 5 comprising 4 themes

| Animal Culture II (TLC101) | Environmental Change (TLC106) | Cross-cultural studies II (TLC113) | Cross-disciplinary insights (TLC123) |
|--|--|--|---|
| Chimpanzees use social information to acquire a skill they fail to innovate Edwin van Leeuwen | Cultural transmission, individual differences, and globalization in a Congo Basin village Adam Boyette | Collective music-making and social bonding: a cross-cultural study of counterfactuals Dor Shilton | Measuring the coordination value of symbols using classification tasks: an ethnographic, game theoretic, and statistical investigation Adrian Villiami Bell |
| Investigating the evolutionary and developmental origins of sequence learning in primates Eva Reindl | Worldwide Divergence of Values Danila Medvedev | Food-Destroying versus Non-Food-Destroying Hazards: A Worldwide Comparison of Differential Effects on Culture Carol R. Ember | How to stop beating a dead cow: Gene-culture coevolution revisited Sven Kasser |
| Cultural dialects in East African chimpanzee gestural communication Gal Badihi | A natural experiment of history: Ontogenetic niche construction, explorative object play, and adaptation during the Little Ice Age in Greenland Mathilde Vestergaard Meyer | A global cross-cultural analysis of string figures reveals evidence of deep transmission and innovation Roope Kaaronen | Is cultural evolution one example of an evolutionary system beyond biology? Thiago Macek G Zahn |
| Inter-group connectivity and collective intelligence in humans and chimpanzees Andrea Migliano | Measuring cultural adaptation to climate change in United States agriculture: 1997-2017 Tim Waring | Sociocultural appearance pressures and appearance ideal internalisation in three countries Lynda Boothroyd | More than "Information in the Head": Culture, Cultural Evolution, and Concepts in Dynamic Assemblages Agustín Fuentes |

WEDNESDAY 11TH SEPTEMBER - AFTERNOON



12:40

- Lunch (*Top Floor*)

13:40

- Parallel Session 6 comprising 4 themes:

| Cooperation (TLC101) | Archaeology (TLC106) | Cumulative Culture (TLC113) | Artificial Intelligence (TLC123) |
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| Honest signalling of intent can overcome the 'tragedy of the commons' by aligning individual interest with group cooperation Gilbert Roberts | A macroevolutionary analysis of European Late Upper Palaeolithic stone tool shape using a Bayesian phylodynamic framework David N. Matzig | Conditions that favour cumulative cultural evolution Kaleda K. Denton | Humans can learn and culturally preserve inconceivable strategies discovered by intelligent machines Thomas F Müller |
| Why cultural distance can promote --- or impede --- group-beneficial outcomes Bret Beheim | The cultural evolution of mathematics through fibre technologies Larissa Mendoza Straffon | Minimal requirements for the open-ended cultural evolution of technology James Winters | Using Large Language Models to study the effect of different individual profiles on cultural evolution Jérémy Perez |
| Competing Scales of Cooperation Charlie Pilgrim | Ancient humans' basecamp habitation pattern and the transition from experience-based to information-based social learning Uri Hertz | The Functions of Ritualization in Acquiring Mastery: Cultural Transmission of Indian Miniature Paintings Faiz A. Hashmi | Machine Culture Levin Brinkmann |
| Reducing global inequality increases local cooperation: a simple model of group selection with a global externality Karolina Safarzynska | Early Palaeolithic cultural evolution? Understanding stability and variation in Acheulean handaxe shape Dietrich Stout | Cultural Evolvability and Cognitive Technologies Matthieu Charbonneau | Large language models show human-like content biases in transmission chain experiments Joseph Stubbersfield |

15:15

- Coffee/Tea Break (*Top Floor*)

15:35

- Parallel Themed Discussions (to be announced during the conference)

16:35

- Leg Stretch

16:40

- Conference Report (TLC042)
- Awards (Conference & CES)
- CES President's report
- CES AGM

Conference Ends (~17:40)



POSTER SESSION MONDAY EVENING



| Poster Number* | Lead Author | Title |
|----------------|------------------------|---|
| 1 | Burton Voorhees | Science as an Epistemic Instrument: Developmental Stages |
| 2 | Andoni Sergiou | The Role of Brain Size, Neural Architecture and Recursive Imagination in the Evolution of Cumulative Culture |
| 3 | Kevin Hong | The Cultural Evolution of Games of Chance – a historical investigation of Chinese gambling |
| 4 | Andrés Segovia-Cuellar | Multilevel sociality and the cognitive underpinnings of cultural modernity in the genus homo |
| 5 | David Sloan Wilson | Multilevel Cultural Evolution as a New Paradigm for Economics and Public Policy |
| 6 | Malene Friis Hansen | Human-macaque co-construction of culture and the possibilities of cross-species cultural evolution |
| 7 | Ellis Cain | Disentangling the impact of cultural context from cultural transmission using an unusual English-to-English cycle of 19th century literary translations |
| 8 | Emily Jeffries | 'The moral of the story' – Investigating the coevolution of storytelling and human cooperation through phylogenetic comparative analysis |
| 9 | Ivan Murin | The Cognitive Frames Modeling as an Approach to Analyze a Place Transformation from Attractors and Selectionist Theory: Case Kaunas. |
| 10 | David T. Schultner | Does Social Learning vary with Environmental Unpredictability? |
| 11 | Eduardo Ottoni | Socially Biased Learning concepts and tool use traditions in tufted capuchin monkeys. |
| 12 | Jérôme Euzenat | Culture transmission through generalisation and example generation should produce variation |
| 13 | Dominique Guillo | Interspecific Traditions through Heterospecific Social Learning |
| 14 | Kisor Chakrabarti | The Ethical Implications of the Impact of Globalization on the Educational Policies and the National Curricula of India |

POSTER SESSION MONDAY EVENING



| Poster Number* | Lead Author | Title |
|----------------|---------------------|--|
| 15 | Zachary H. Garfield | Third-party punishment is more common than second-party punishment across 60 diverse societies |
| 16 | Tiago Falótico | Tool use cultures by wild capuchin monkeys in Brazil |
| 17 | Yuta Kido | Empirical evidence for the impact of payoff-biased imitation of other group members on the spread of cooperation |
| 18 | Peter Maño | Dealing with uncertainty: strategies and contexts |
| 19 | Mina Aryaie | An Exploration of Evil Eye Beliefs and Interpersonal Envy |
| 20 | Christine Caldwell | Intentional knowledge transmission optimises cumulative cultural evolution |
| 21 | Kerstin Stucky | Kin selection favours religious traditions: Ancestor worship as a cultural descendant-leaving strategy |
| 22 | Jinwen Xie | Cultural transmission and gender stereotypes: the relationship between sexist attitudes and perceived experiences of microaggressions in women |
| 23 | Gillian Vale | Innovative washing of frozen enrichment in warm springs: could Japanese macaques be thawing their foods? |
| 24 | Gakuto Chiba | Exploring relationships between musical and linguistic rhythms in traditional Japanese musical instruments, songs and speech |
| 25 | Ellen Garland | Humpback whale song complexity and evolution on a western North Pacific breeding ground |
| 26 | Eléonore Trân | The role of technical reasoning in cumulative technological culture: an online study |
| 27 | Eythan Cousin | Cultural influences on social behavior in captive rhesus macaques: a comparative study |
| 28 | Marina Bazhydai | The ManyManys: presenting a new multi-disciplinary Big Team Science network to advance research in comparative cognition. |
| 29 | Kiran Basava | A pilot database of animal cultures |

