

**The 9th International Conference on the Evolution of
Language
(Evolang IX)**

<http://kyoto.evolang.org/>

13th – 16th March 2012

Campus Plaza Kyoto,

939 Higashi-Shiokoji-Cho, Nisino-Toin-Dori Shiokoji Sagaru,

Shimogyo-ku, Kyoto, JAPAN 600-8216

Tuesday March 13th

9.15-15.45	Workshops
16.00-17.00	Oral Presentations 1
17.15-18.15	Plenary Lecture 1
18.15-19.15	Plenary Lecture 2
19.25-21.20	Reception

Thursday March 15th

9.15-10.15	Plenary Lecture 6
10.15-11.15	Plenary Lecture 7
11.25-12.25	Oral Presentations 4
12.30-18.30	Excursion
19.00-21.00	Conference Dinner

Wednesday March 14th

9.15-10.15	Plenary Lecture 3
10.15-11.15	Plenary Lecture 4
11.30-12.50	Oral Presentations 2
14.25-16.05	Oral Presentations 3
16.20-17.20	Plenary Lecture 5
17.20-19.20	Poster Presentations 1

Friday March 16th

9.15-10.15	Plenary Lecture 8
10.15-11.15	Plenary Lecture 9
11.30-13.25	Poster Presentations 2
14.25-16.05	Oral Presentations 5
16.20-17.20	Plenary Lecture 10
17.20-18.20	Plenary Lecture 11
18.20-18.30	Closing Remarks

EVOLANG IX Organizing Committee

Conference Timetable

Tuesday 13 th March				
9.15 – 15.45	Workshops (See workshop program)			
Break				
	Lecture Room 1	Lecture Room 2	Lecture Room 3	Lecture Room 4
16.00 – 16.20	Kazuo Okanoya, Kenta Suzuki, Yoshimasa Seki: Failure of Operant Discrimination Learning of Simple Algebraic Concept in a Songbird	Invited talk: Tao Gong, Lan Shuai <i>Simulating the Coevolution of Language and Joint Attention</i> (16.00–16.40)	Erica A. Cartmill, Susan Goldin-Meadow: Is Pantomime a Likely Stage in Language Evolution? Evidence from Human and Primate Gesture	Christian Bentz, Bodo Winter: The Impact of L2 Speakers on the Evolution of Case Marking
16.20 – 16.40	Giorgos P. Argyropoulos: Cortico-Cortical and Cortico-Cerebellar Computations in Language Change		Thomas Scott-Phillips: How Do Communication Systems Emerge, and What Does This Tell Us About Language?	Tatiana Romanchishina, Kathryn H. Thompson: The Nature of Coordination: Evidence from Russian
16.40 – 17.00	Heidi Lyn, Jamie Russell, Jennifer Schaeffer, Peter Pierre, Allyson Bennet, Scott Fears, Roger Woods, William Hopkins: Building a Language-Competent Species: Contributions of Brain and Environment to Cognition and Communication in Apes and Monkeys	Jordan Zlatev: Intersubjectivity, as the Key Precondition for Language (and Its Possible Devolution)	Michael Arbib: Evolutionary Parallels Between Language and Tool Use	Remi van Trijp: The Emergence of Morphosyntactic Case Systems
Break				
17.15 – 18.15	Plenary 1: Massimo Piattelli-Palmarini (Lecture Room 1) <i>Three Models (and a Half) for the Description of Language Evolution</i>			
18.15 – 19.15	Plenary 2: Minoru Asada (Lecture Room 1) <i>Towards Language Acquisition by Cognitive Developmental Robotics</i>			
19.25 – 21.20	Welcome Reception (Hall) <i>(Includes a selection of Japanese Beverages and a Light Meal)</i>			

Wednesday 14th March

9.15 – 10.15	Plenary 3: Cedric Boeckx (Lecture Room 1) <i>Homo Combinans</i>			
10.15 – 11.15	Plenary 4: Simon Kirby (Lecture Room 1) <i>Why Language Has Structure: New Evidence from Studying Cultural Evolution in the Lab and What It Means for Biological Evolution</i>			
Break				
	Lecture Room 1	Lecture Room 2	Lecture Room 3	Lecture Room 4
11.30 – 11.50	Kentaro Abe: Postnatal Acquisition of the Ability to Discriminate Culturally Shared Song Syntax in Songbirds	Invited talk: Kazuo Fujita <i>A Search for Metacognition in Avians</i> (11.50–12.30)	Jaume Baixeries, Ramon Ferrer-i-Cancho, Brita Elvevåg: The Evolution of the Exponent of Zipf’s Law in Language Ontogeny	Richard Moore: The Gricean Intentional Structure of Ape Gestural Communication
11.50 – 12.10	Miki Takahasi, Hiroko Kagawa, Kenta Suzuki, Olga Fehér, Kazuo Okanoya: Divergence and Convergence in Vocal Cultures		Mutsumi Imai, Michiko Asano, Michiko Miyazaki, Hiroyuki Okada, Henny Yeung, Keiichi Kitajo, Guillaume Thierry, Sotaro Kita: Sound Symbolism Helps Infants’ Word Learning	Gregory Mills: The Evolution of Miscommunication
12.10 – 12.30	Bill Thompson, Kenny Smith, Simon Kirby: Cultural Evolution Renders Linguistic Nativism Implausible	Archishman Raju: Spatial Dynamics of Language	Hiroko Kagawa, Kenta Suzuki, Miki Takahasi, Kazuo Okanoya: Innate Template Difference Could Induce Signal Complexity: A Comparison of Song Features Under Auditory Isolation Between Wild and Domesticated Finches	Michael Franke: Scales, Salience and Referential Safety: The Benefit of Communicating the Extreme
12.30 – 12.50	Luke McCrohon: Simulating the Effects of Cultural Coadaptation on Rates of Endogenous and Exogenous Language Change	Michael J. Fox, Georgios Piliouras, Jeff S. Shamma: Medium and Long-Run Properties of Linguistic Community Evolution	Caroline N. Green, Lynn E. Driver, Lauren A. Bohm, Glenn E. Green: Babbling and Speech Development in Previously Aphonic Children After Airway Reconstruction Recapitulates Evolution of Spoken Language	Justin Sulik: Abductive Inference and Insight in the Evolution of Symbolic Communication
Lunch				

Wednesday 14th March (Continued)

Lunch

	Lecture Room 1	Lecture Room 2	(!) Seminar Rooms (!)	Lecture Room 4
14.25 – 14.45	Irene Pepperberg: Parrots as Models for Language Evolution	Invited talk: Charles Yang <i>Why Language Evolved Only Once</i> (14.25–15.05)	Bradley Walker, Nicolas Fay, T. Mark Ellison: Biased Copying in the Evolution of Human Communication Systems	Eiji Matsunaga, Kenta Suzuki, Ryoko Nakagawa, Tohru Kurotani, Kazuo Okanoya: Dynamic Expression of Cadherins Controls Vocal Learning
14.45 – 15.05	Gary Lupyan, Daniel Casasanto: The Meaning of Nonsense Words		Andrea Baronchelli, Nick Chater, Romualdo Pastor-Satorras, Morten H. Christiansen: Reconciling the Diversity of Languages with the Biological Uniformity of Their Speakers	Sverker Johansson: The Case for Neanderthal Language – How Strong Is It?
15.05 – 15.25	Vittorio Loreto, Animesh Mukherjee, Francesca Tria: On the Origin of the Hierarchy of Color Names	David Gil: How Did Predication Evolve?	Michael Spranger: Potential Stages in the Cultural Evolution of Spatial Language	Antonio Benítez-Burraco, Vctor M. Longa: On the Inference ‘Neanderthals Had FOXP2 = They Had Complex Language’
15.25 – 15.45	Sun Xiaoxia, Seifert Uwe: Syntax of Mind – Semantics of Mind: Two Frameworks for Comparative Approaches to the Evolution of Language and Music	Joana Rosselló, Celia Alba, Txuss Martin, Oriol Borrega: No Words Without Syntax, No Syntax Without Words	Andrew Smith: Linguistic Replicators: A Wild Goose Chase?	Tom Froese, Takashi Ikegami, Mike Beaton: Non-Human Primates Cannot Decontextualize and Objectify the Actions of Their Conspecifics
15.45 – 16.05	Andy Lücking, Alexander Mehler: What’s the Score of the Naming Game? Constraints on Semantic Categorization	Hisatsugu Kitahara: Minimization of Universal Grammar, Reliance on Third Factor Principles, and Feasibility of Inquiry into Evolutionary Origins	Francesca Tria, Bruno Galantucci, Vittorio Loreto: Naming a Structured World: A Cultural Route to Duality of Patterning	Hajime Yamauchi, Terrence Deacon, Kazuo Okanoya: The Myth Surrounding the Ban by Société de Linguistique
Break				
16.20 – 17.20	Plenary 5: Jenny Saffran (Lecture Room 1) <i>Out of the Brains of Babes: Domain-general Learning Mechanisms and Domain-specific Systems</i>			
17.20 – 19.20	Poster Session 1 + Wine Reception (Hall) <i>(Second half of the poster session will include wine and light refreshments)</i>			

Poster Session 1

Pitch Intervals in Relation to the Origin of Language – *Ai Kawakami, Kiyoshi Furukawa, Kazuo Okanoya*

Neural Correlates of Song Perception During Zebra Finch Song Learning as Shown by Bold fMRI – *Anne van der Kant, Annemie van der Linden*

The Evolution of Morphology and the Diversity of Grammatical Systems – *Anja Latrouite*

Semiotic Investigations into Early Forms of Symbolism and Language – *Christophe Coupe*

Sea Crossings Are An Unreliable Indicator of Language Ability in Hominids – *Cory Cuthbertson, Luke McCrohon*

The Drosophila FoxP Gene Is Required for Operant Self-Learning: Implications for the Evolution of Language Acquisition – *Ezequiel Mendoza, Julien Colomb, Jürgen Rybak, Hans-Joachim Pflüger, Troy Zars, Constance Scharff, Björn Brembs*

Non-Human Primates Do Declare! Declaratives as Evidence for Mental Time-Travel in Apes – *Heidi Lyn, Patricia Greenfield, Sue Savage-Rumbaugh, Kristen Gillespie-Lynch, William Hopkins*

Evolution of Symbolic Communication in the Perceptual Crossing Experiment – *Hiroyuki Iizuka, Davide Marocco, Hideyuki Ando, Taro Maeda*

The Evolution of the Greenbergian Word Order Correlations – *Jeremy Collins*
Displacement in Communication – *Kaori Tamura, Takashi Hashimoto*

A Parsimonious Representation with Hidden States for Birdsong Syntax: An Implication to Human Syntax Evolution – *Kentaro Katahira, Kenta Suzuki, Hiroko Kagawa, Kazuo Okanoya, Masato Okada*

Language Lateralization, Categorical Perception and Language Evolution – *Lan Shuai, Tao Gong*

Cognitive Construal, Mental Spaces and the Evolution of Language and Cognition – *Michael Pleyer*

Infants' Own-Cry Perception for Language Acquisition – *Reiko Hoshi-Shiba, Yulri Nonaka, Hiromi Nito, Akemi Utsumi, Katsumi Mizuno, Yoshiharu Mukai, Kazuo Okanoya*

Visual Artificial Grammar Learning: Comparative Research on Humans and

Birds – *Nina Stobbe, Tecumseh W. Fitch*

A Modulation-Demodulation Model for Speech Communication and Its Emergence – *Nobuaki Minematsu*

Emotion, Approach-Avoidance Motivation, and Blending in the Evolution of Language – *Paul Wilson, Barbara Lewandowska-Tomaszczyk*

A Bottom-Up Approach to Language Evolution – *Séan Roberts*

Searching for Substance in the Baldwin Effect: When Learning Causally Affects Genetic Adaptation – *Vanessa Ferdinand, Simon Kirby, Kenny Smith*

Male Gibbons Change Their Note Order According to the Behavioral Situation – *Yoichi Inoue, Waidi Sinun, Shigeto Yoshida, Kazuo Okanoya*

Me to We: Cooperation, Conflict, and the Evolution of Language – *Jacob G. Foster*

Thursday 15th March

9.15 – 10.15	Plenary 6: Simon Fisher (Lecture Room 1) <i>Molecular Windows into Speech and Language</i>		
10.15 – 11.15	Plenary 7: Russell Gray (Lecture Room 1) <i>The Evolution of Language Without Miracles</i>		
Break			
	Lecture Room 1	Lecture Room 2	Lecture Room 3
11.25 – 11.45	Harumi Kobayashi, Tetsuya Yasuda: Meanings of Touching Object Pairs in Pointing	Nicolas Fay, Bradley Walker, Alan Bailey: Social Interaction Is Critical to the Evolution of Human Communication Systems (and why)	Arnaud Rey, Pierre Perruchet, Joël Fagot: Recursivity Is a By-Product of Associative Learning and Working Memory Constraints: Evidence from Baboons (<i>papio papio</i>)
11.45 – 12.05	Junko Kanero, Mutsumi Imai, Hiroyuki Okada, Tetsuya Matsuda: The Role of STS in Mimetic-Word Processing: Sound Symbolism or Biological Motion?	Justin Quillinan: A Model of the Evolution of Frequent Social Communication	Kazutoshi Sasahara, Martin Cody, Charles Taylor: Evolution of ‘Small-world’ Birdsong Syntax: An Implication to Language Evolution
12.05 – 12.25	Dillon Niederhut: Gesture and the Origins of Language	Martin Bachwerk, Carl Vogel: Language and Friendships: A Co-Evolution Model of Social and Linguistic Conventions	Didier Demolin, Sergio Hassid: Comparative Histological Data Between the Vocal Folds of Humans and Bonobos
12.30 – 18.30	Conference Excursion <i>(Optional Social Event)</i>		
19.00 – Late	Conference Dinner <i>(Optional Social Event)</i>		

Friday 16 th March				
9.15 – 10.15	Plenary 8: Rafael Núñez (Lecture Room 1) <i>The Irreducible Semantic Communicative Drive: Imagination and Culture Beyond the Hands</i>			
10.15 – 11.15	Plenary 9: Tetsuro Matsuzawa (Lecture Room 1) <i>Outgroup: The Study of Chimpanzees to Know the Human Mind</i>			
Break				
11.30 – 13.25	Poster Session 2 (Hall)			
Lunch				
	Lecture Room 1	Lecture Room 2	Lecture Room 3	Lecture Room 4
14.25 – 14.45	Toshio Ohori: When Recursion Collapses: Evidence from Discourse Interaction	Invited talk: Noriko Osumi <i>Rodent Ultrasonic Vocalization as a Model of Human Speech: A Molecular and Cellular View</i> (14.25–15.05)	Tessa Verhoef, Bart de Boer, Simon Kirby: Holistic or Synthetic Protolanguage: Evidence from Iterated Learning of Whistled Signals	Bodo Winter, Morten H. Christiansen: Robustness as a Design Feature of Speech Communication
14.45 – 15.05	Richard Littauer: The Evolution of Morphological Agreement		John Sundquist: Grammaticalization, Light Verbs, and the Origins of Complex Language	Roland Mühlenbernd, Michael Franke: Signaling Conventions: Who Learns What Where and When in a Social Network?
15.05 – 15.25	Mauricio Martins, W. Tecumseh Fitch: Empirical Approaches to Recursion	Lluís Barceló-Coblijn, Antoni Gomila: Campbells Monkeys Alarm Calls Are Not Morpheme-Based	Invited talk: Atsushi Iriki <i>Triadic Niche Construction: A Scenario of Human Brain Evolution Realizing Tool-Use and Language</i> (15.05–15.45)	Mónica Tamariz, Hannah Cornish, Kenny Smith, Séan Roberts, Simon Kirby: The Effects of Generation Turnover and Interlocutor Negotiation on Linguistic Structure
15.25 – 15.45	Mieko Ogura, Willian S. Y. Wang: Ambiguity Resolution and Evolution of Word Order	Bart de Boer: Iconicity in Structured Form and Meaning Spaces		Przemysław Żywicznyński, Sławomir Waciewicz: The Cooperative Nature of Conversation: Evidence from Conversational Exchanges
15.45 – 16.05	James Hurford: Syntax Evolved Gradually	Aleksandrs Berdicevskis: Introducing Pressure for Expressivity into Language Evolution Experiments	Rie Asano: Protolanguage, Discrete Infinity and Interfaces: Investigating the Evolution of the Language and Music Faculty Within the Minimalist Program	Chloe Gonseth, Anne Vilain, Coriandre Vilain: Ontogeny of Two Communicative Tools: Distance Encoding and Multimodality in Deictic Pointing
Break				
16.20 – 17.20	Plenary 10: Tom Griffiths (Lecture Room 1) <i>Neutral Models for Language Evolution</i>			
17.20 – 18.20	Plenary 11: Terrence Deacon (Lecture Room 1) <i>Neither Nature nor Nurture: Coevolution, Devolution, and Universality of Language</i>			
18.20 – 18.30	Closing Remarks			
18.40 –	Business Meeting <i>(Open to all participants)</i>			

Poster Session 2

Individual and Social Effects on Linguistic Diffusion – *Tao Gong, Mónica Tamariz, Gerhard Jäger*

Simulating Language Convergence – *Lan Shuai, Tao Gong, Umberto Ansaldi*

On Some Parallels Between the Vocal Apparatus and Musical Instruments and Their Consequences for the Evolution of Language and Music – *J. Roberto do Carmo Jr.*

The Information Rate of Modern Speech and Its Implication for Language Evolution – *John Villasenor, Jiangtao Wen, Yuxing Han, Daniel Wen, Esther Gonzalez, Jianwen Chen*

Iterated Learning in Populations: Learning and Evolving Expectations About Linguistic Homogeneity – *Kenny Smith, Bill Thompson*

The Origin of the Learning System of Sequential Vocalizations: Neural Activity of Basal-Ganglia in Singing Behavior and a Cognitive Task in Songbirds – *Yoshimasa Seki, Neal Hessler, Kazuo Okanoya*

The First Word Was Not a Noun – *Cory Cuthbertson*

Topographic Learning and the Arbitrary, Categorical Lexicon – *T. Mark Ellison*

Cerebral Laterality for Prosody Processing in Human Neonates: Evidence from Multichannel Near-Infrared Spectroscopy – *Nozomi Naoi, Yutaka Fuchino, Minoru Shibata, Masahiko Kawai, Yukuo Konishi, Kazuo Okanoya, Masako Myowa-Yamakoshi*

Expression Analysis of Language-Related Genes in the Common Marmoset Brain – *Masaki Kato, Kazuo Okanoya, Taku Koike, Shigeru Watanabe, Atsushi Iriki*

Overgeneralization of Verbs - The Change of the German Verb System – *Marisa Delz, Benjamin Layer, Sarah Schulz, Johannes Wahle*

Re-Dating the Loss of Laryngeal Air Sacs in Homo sapiens – *Richard Lit-tauer*

The Voice of Things: The Revolution of Human Language and Its Origin from Sound Imitation – *Giuseppe Maiorano*

Replication and Emergence Processes in Language Evolution – *Mónica Tamariz*

Structural Reanalysis Responses to Musical Tonality: Commonality with the Neural Processing of Emotion in Language – *Hidefumi Ohmura, Takayuki Hamano, Tomasz Rutkowski, Hiroko Terasawa, Kazuo Okanoya, Kiyoshi Furukawa*

Phase Theory and the Role of Cognitive Constraints in the Maximal Expansion of Syntactic Trees – *Aritz Irurtzun*

Human Non-Lexical Vocal Events and Prosody in the Perspective of Language Evolution – *Anne Vanpé, Didier Demolin*

Morphing Social Communication Networks from Chimpanzee to Human Type – *Sara A. Najem, Jihad R. Touma, Albert F. H. Naccache*

Hominin Cooperation and Language Evolution – *Albert F. H. Naccache*

Song Memory Including Sequential Information in Male Bengalese Finch's Auditory Area – *Yoko Kato, Masaki Kato, Kazuo Okanoya*

A Simple Integrated Framework for Investigating Genetic and Cultural Evolution of Language – *Tsubasa Azumagakito, Reiji Suzuki, Takaya Arita*

Are Web Search Queries an Evolving Protolanguage? – *Rishiraj Saha Roy, Monojit Choudhury, Kalika Bali*

Is *And* a Fossil?: Coordination and the Origin of Compositionality – *Wayne Cowart, Dana McDaniel, Kathryn Thompson, Tatiana Romanchishina*

How Is Pragmatic Grounding Formed in Symbolic Communication Systems? – *Takeshi Konno, Junya Morita, Takashi Hashimoto*