

## Curriculum Vitae Julia Fischer

born July, 22<sup>nd</sup>, 1966 in Munich, Germany

[ORCID: 0000-0002-5807-0074](#) / [Google Scholar Profile](#)

Professor for Primate Cognition, Georg-August-University of Göttingen

Head, Cognitive Ethology Laboratory, German Primate Center, Göttingen

|                       |  |
|-----------------------|--|
|                       | <b>Scientific Career</b>   |
| since 2018            | Deputy Scientific Director of the German Primate Center  |
| since 2016            | Professor for Primate Cognition (W3), University of Göttingen and<br>Head of the Cognitive Ethology Laboratory, German Primate Center<br>Göttingen |
| Nov 2004              | Appointment as Professor for Cognitive Ethology (W2) at the German<br>Primate Center and the University Göttingen                                  |
| Jan 2004              | Habilitation, University Leipzig   |
| Dec 2000 – Aug 2004   | Postdoctoral Fellow, Department for Comparative and Developmental<br>Psychology, Max-Planck-Institute for evolutionary Anthropology,<br>Leipzig    |
| Dec 1997 – July 2000  | Postdoctoral Fellow, Department of Psychology, University of<br>Pennsylvania, Philadelphia   |
|                       | <b>PhD</b>   |
| July 1996             | Dissertation. Topic: Categorical Perception of species-specific sounds<br>in Barbary macaques.   |
|                       | <b>Study</b>   |
| April 1987 – Oct 1993 | Study of Biology at the Free University of Berlin and Glasgow<br>University.   |
|                       | <b>School</b>  |
| 1984                  | Abitur   |

### Honors

- Werner Heisenberg Medal of the Alexander von Humboldt Foundation 2023
- Member of the German National Academy of Science Leopoldina since 2022
- Special Prize of the Foundation Board of the Göttingen University 2017
- Order of Merit by the State of Lower Saxony 2016
- Member of the Akademie der Wissenschaften zu Göttingen since 2014
- Grüter Prize for Science Communication 2013
- Member of the Berlin-Brandenburgischen Academy of Science since 2007
- DFG Heisenberg Fellow 2004

- Fellow of Die Junge Akademie 2003-2008, President 2007-2008

### **Contribution to collaborative research and graduate training**

- Speaker of the Research Training Group (Graduiertenkolleg) “Understanding Social Relationships” (2015-2024)
- Speaker of the Leibniz Science Campus on Primate Cognition (since 2015)
- Initiator and speaker of the interdisciplinary PhD study program “Behaviour and Cognition” (2013-2015)
- Speaker “Leibniz Graduate School for the Foundations of Primate Social Behaviour” (2011-2014)
- Speaker “Courant Research Center for the Evolution of Social Behaviour”, funded by the Excellence Initiative (2010-2014)

### **Editorships**

Associate Editor American Journal of Physical Anthropology (2019-2023); Associate Editor Primate Biology (since 2014); Associate Editor Frontiers in Zoology (since 2012); Review Editor Frontiers in Comparative Psychology (since 2010); Animal Behaviour (2006-2008); Academic Editor PLOS Biol. (2005-2010); Folia Primatol (2001-2015)

### **Ad hoc Reviewer**

Science, Nature Communications, Nature Ecology and Evolution, PNAS, PLoS Biology, Current Biology, Proceedings of the Royal Society-B, Biology Letters, Royal Society Open Science, Trends in Neuroscience, Trends in Cognitive Science, Journal of Experimental Biology, Journal of Comparative Psychology, Journal of the Acoustical Society of America, American Journal of Primatology, and others.

### **Professional Duties (Selection)**

- Vice President of the Berlin-Brandenburg Academy of Science (since 2020)
- Member of the Scientific Advisory Board of the Schering Stiftung (since 2023)
- Member of the Scientific Advisory Board of the Natural History Museum Berlin (since 2023)
- Member of the Kuratorium Naturkundemuseum Bayern (since 2020)
- Member of the Kuratorium of the Biodiversity Museum University Göttingen (since 2020)
- Advisory Board of the Center for Mind and Cognition, University Bochum (since 2019)
- Member of the Senate of the DFG (2015-2019)
- Advisory Board „Demographic Change“ of the National Academy Leopoldina (since 2015)
- Advisory Board Research Network „Sprache und Wissen“, Heidelberg (since 2017)
- Advisory Board of Die Junge Akademie (2014-2019)
- Scientific Advisory Board of the Ernst-Strüngmann Forum (2011-2019)
- Member of the Supervisory Board of the LMU München (2007-2011)
- President of the European Federation of Primatology (2010-2013)

- President of the Gesellschaft für Primatologie (2007-2010)

**Evaluator/Reviewer (selection)**

- Jury Member for the BBVA Frontiers of Knowledge Award in Ecology and Conservation (2018)
- Panel Chair, Selection Committee for the Humboldt Research Award and Sofia-Kowalewskaja Award Alexander-von-Humboldt Stiftung (2014-2023, Panel Chair 2018-2023)
- Jury Member Bielefelder Wissenschaftspreis (2014-2023)
- European Research Council Starting and Consolidator Grants (Panel Chair 2012-2014 for Panel LS8, Panel Member 2007-2010 for LS8)
- Selection Committee Karl-Ritter-von-Frisch Medaille der Deutschen Zoologischen Gesellschaft (2013)
- Jury Member Falling Walls Lab (2014/2015)
- External Member of the Working Groups of the Wissenschaftsrat “Empfehlungen zur Differenzierung der Hochschulen” (2011) sowie “Sonderforschungsbereiche und Forschungszentren” (2009)
- Evaluator Wissenschaftsrat (Excellence Initiative funding line 3) (2006)
- Evaluator for research proposals from DFG, Leopoldina, ERC, NSF (USA), VolkswagenStiftung, Merkator Stiftung, Leakey Foundation (USA), NOW (Netherlands), Studienstiftung des Deutschen Volkes, Rijksbanken Fund (Sweden), OeAD (Austria), SNF (Schweiz), Israeli Research Foundation, UK Medical Council u.a.

**Conference Organization (Selection)**

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| 2017 | Organizer “Frontiers in Baboon Research” Symposium, Göttingen  |
| 2016 | Co-Organizer FENS Winter School on the Neurobiology of Language and Communication                                  |
| 2016 | Host 11 <sup>th</sup> Topical Meeting of the Ethological Society   |
| 2015 | Co-Organizer Göttingen SPIRIT Summer School on Emotion and Cognition   |
| 2010 | Co-Chair of the Strüngmann Forum on “Animal Thinking”, Frankfurt Institute for Advanced Studies, Frankfurt am Main |
| 2010 | Organizer of the Workshop “Knowledge, Language, Memory”, University Göttingen                                      |
| 2008 | Organizer of the Workshop “Information, Control and Communication”, Berlin   |

**Recent funding (major grants last five years)**

|           |   |
|-----------|---|
| 2022-2025 | DFG CRC “Cognition of Interaction”, TP B05: “Social evaluation and partner choice in the tolerant multi-level society of Guinea baboons”, € 506.000 |
| 2019-2022 | DFG Fi707/25-1 “Vocal production and auditory learning in the genus <i>Chlorocebus</i> ”, € 218.600   |
| 2017-2020 | DFG Fi707/22-1 “Age-related variation in physical and social cognition in Barbary macaques ( <i>Macaca sylvanus</i> )”, € 210.100                   |
| 2015-2024 | Speaker DFG Research Training Group 2070 “Understanding Social Relationships”, € 8 Million  |
| 2015-2024 | Leibniz Science Campus for Primate Cognition; Leibniz Association, € 3.6 Million  |

### Top ten journal publications

- (1) Dal Pesco F, Trede F, Zinner D, **Fischer J** (2022)  
**Male-male social bonding, coalitionary support and reproductive success in wild Guinea baboons**  
 Proceedings of the Royal Society B 289: 20220347
- (2) **Fischer J** (2021)  
**Primate vocal communication and the evolution of speech**  
 Current Directions in Psychological Science **30**: 55–60
- (3) Wegdell F, Hammerschmidt K, **Fischer J** (2019)  
**Conserved alarm calls but rapid auditory learning in monkey responses to novel flying objects**  
 Nature Ecology and Evolution 3: 1039-1042
- (4) **Fischer J**, Higham JP, Alberts SC, et al. (2019)  
**The natural history of model organisms: Insights into the evolution of social systems and species from baboon studies**  
 Elife 8: e50989
- (5) **Fischer J**, Price T (2017)  
**Meaning, intention, and inference in primate vocal communication**  
 Neuroscience & Biobehavioral Reviews 82: 22-31
- (6) Almeling L, Hammerschmidt K, Sennhenn-Reulen H, Freund AM, **Fischer J** (2016)  
**Motivational shifts in aging monkeys and the origins of social selectivity**  
 Current Biology 26:1744-1749
- (7) Price T, Wadewitz P, Cheney D, Seyfarth R, Hammerschmidt K, **Fischer J** (2015)  
**Vervets revisited: A quantitative analysis of alarm call structure and context specificity**  
 Scientific Reports 5: 13220
- (8) Patzelt A, Kopp GH, Ndao I, Kalbitzer U, Zinner D, **Fischer J** (2014)  
**Male tolerance and male-male bonds in a multi-level primate society**  
 Proceedings of the National Academy of Sciences USA 111(41): 14740-14745.
- (9) Wheeler BC, **Fischer J** (2012)  
**Functionally referential signals: a promising paradigm whose time has passed**  
 Evolutionary Anthropology 21(5): 195-205
- (10) Kaminski J, Call J, **Fischer J** (2004)  
**Word Learning in a domestic dog: Evidence for 'fast mapping'**  
 Science 304: 1682-1683 \*featured in Perspectives: Bloom P: Can a dog learn a word? pp 1605-1606

### **Scientific Societies**

Deutsche Primatologische Gesellschaft; European Federation of Primatology; Ethologische Gesellschaft; Internationale Primatologische Gesellschaft; Association for the Study of Animal Behaviour; Deutsche Zoologische Gesellschaft

### **Invited presentations (selection)**

- 2023 Neural Circuits of Social Behavior conference, Magdeburg, Germany
- 2023 Capocaccia Conference on Neuromorphic Intelligence, Capocaccia, Italy
- 2023 ISLE Colloquium, Zurich, Switzerland
- 2022 Cold Spring Harbor Summer School on the Evolution of Language, USA
- 2022 "Gänserede" – Alexander von Humboldt Stiftung, Berlin, Germany
- 2022 Institute for Neuroinformatics, Zurich, Switzerland
- 2021 Plenary Talk, Cognitive Science Society, Vienna, Austria
- 2021 FINE Seminar Series (online)
- 2019 Plenary Talk, CBEN Meeting Amsterdam, Netherlands
- 2019 Plenary Talk, European Conference in Cognitive Science, Bochum, Germany
- 2019 Colloquium Central European University, Budapest, Hungary
- 2019 Colloquium, Rockefeller University, New York City, USA
- 2019 Workshop "New perspectives on primate adaptations", Gorongosa NP, Mozambique
- 2018 Plenary Talk, Münster Evolutionary Meeting, Münster, Germany
- 2017 Colloquium, Human Evolutionary Biology Department, Harvard, USA
- 2017 Plenary Talk, BLAM Meeting, Lund, Sweden
- 2016 Colloquium, University of St. Gallen, Switzerland
- 2016 Collegium Generale, University of Bern, Switzerland
- 2015 Plenary talk International Bioacoustic Council, Murnau, Germany
- 2015 Key note lecture "Reciprocity" Symposium, Berlin School of Mind and Brain, Germany
- 2015 Plenary talk, European Brain and Behaviour Society, Verona, Italy
- 2015 Plenary talk, Gesellschaft für Primatologie, Leipzig, Germany
- 2014 Key note lecture, Conference "Beyond Words", Leipzig, Germany
- 2012 Plenary talk, Argentinian Society for Neuroscience, Cordoba, Argentina

### **Outreach (selection)**

- Nacht des Wissens, Göttingen (multiple times)
- Wissenschaft im Sauriersaal, Naturkundemuseum Berlin, 16.11.2018
- Festvortrag Akademie der Wissenschaften zu Göttingen, 3.11.2018
- Salon Sophie-Charlotte BBAW Berlin, 20.1.2018

Helmholtz Lecture, Berlin, 1.6.2017

Smashing Ideas Festival, Hamburg, 15.2.2017

CIN Dialogues, Tübingen, 20.11. 2017

YPO Winter Meeting, Jochberg, Austria, 28.1.2016

Festvortrag GSK Stiftung, München, 9.7.2015

„Nochtspeicher“, Hamburg, 19.11.2014

Festvortrag zur Verleihung des Alfried-Krupp-Förderpreises 2014, Villa Hügel, Essen 30.10.2014

DFG „Exkurs“ Staatsbibliothek München 19.3.2014

Höllerer Vorlesung Berlin 11.7.2013

Leibniz-Vorlesungen Hannover 24.-26.6.2013

Akademische Causerie Berlin 6.5.2013

Göttinger Literaturherbst 18.10.2012

Carl-Friedrich von Siemens-Stiftung München 22.02.2010

### **Media**

Work has been featured by the New York Times, Wall Street Journal, Le Monde, heute journal, Spiegel, FAZ, BBC, NPR, SWR 2 Aula, Radio Bremen 2 'Sommergäste', NBC, Dutch Television, ZDF Nachtstudio, Radio Bremen 3nach9. Portraits and Interviews in ZEIT WISSEN, FAZ Bilder und Welten, Süddeutsche Zeitung, duz spezial. I have given more than 100 radio interviews, including several 1-hour feature shows such as WDR5 Tischgespräch, Deutschlandradio Zwischentöne, and HR2 Doppelkopf. Our work has been featured in an exhibit in the National Museum of Natural Science in Taiwan.

## Publications

### All journal publications

- (1) Sørensen EF, Harris RA, Zhang L, [...] **Fischer J** [...] Zinner D, et al. (2023)  
**Genome-wide coancestry reveals details of ancient and recent male-driven reticulation in baboons**  
Science 380 (6648) <https://doi.org/10.1126/science.abn8153>
- (2) Federspiel IG, Schmitt V, Schuster R, Rockenbach C, Braun A, Loretto M-C, Michels C, **Fischer J**,  
Mussweiler T, Bugnyar T (2023)  
**Are you better than me? Social comparisons in carrion crows (*Corvus corone*)**  
Animal Cognition online <https://doi.org/10.1007/s10071-023-01785-y>
- (3) Treschnak D, Zinner D, **Fischer J** (2023)  
**Male Guinea baboons are oblivious to their females' whereabouts**  
Animal Behaviour 201: 53 - 62
- (4) Moeller S, Unakafov AM, **Fischer J**, Gail A, Treue S, Kagan I (2023)  
**Human and macaque pairs employ different coordination strategies in a transparent decision game**  
eLife 12:e81641 <https://doi.org/10.7554/eLife.81641>
- (5) **Fischer J** (2023)  
**Aging rhesus monkeys stick to friends and family (Commentary)**  
Proceedings of the National Academy of Sciences USA 120(1): e2219062120
- (6) Neumann C, **Fischer J** (2023)  
**Extending Bayesian Elo-rating to quantify the steepness of dominance hierarchies**  
Methods in Ecology and Evolution 14, 669– 682. <https://doi.org/10.1111/2041-210X.14021>
- (7) Titchener R, Thiriau C, Hüser T, Scherberger H, Fischer J & Keupp S (2023)  
**Social disappointment and partner presence affect long-tailed macaque refusal behaviour in an 'inequity aversion' experiment**  
Royal Society Open Science, 10(3): 221225
- (8) Schad L, **Fischer J** (2023)  
**Opportunities and risks in the use of drones for studying animal behavior**  
Methods in Ecology and Evolution 14(8), 1864-1872. <https://doi.org/10.1111/2041-210X.13922>
- (9) Rathke E-M, Mundry R, **Fischer J** (2022)  
**Older Barbary macaques show limited capacity for self-regulation to avoid hazardous social interactions**  
Communications Biology 5: 1087. <https://doi:10.1038/s42003-022-04012-5>
- (10) Schleihauf H, Herrmann E, **Fischer J**, Engelmann JM (2022)  
**How children revise their beliefs in light of reasons**  
Child Development 93(4): 1072-1089 <https://doi.org/10.1111/cdev.13758>
- (11) Dal Pesco F, Trede F, Zinner D, **Fischer J** (2022)  
**Male-male social bonding, coalitionary support and reproductive success in wild Guinea baboons**  
Proceedings of the Royal Society B 289: 20220347
- (12) Montanari D, O'Hearn WJ, Hambuckers J, **Fischer J**, Zinner D (2021)  
**Coordination during group departures and progressions in the tolerant multi-level society of wild Guinea baboons (*Papio papio*)**  
Scientific Reports 11: 21938 \*shared first and last authorships
- (13) Vernes SC, Kriengwatana BP, Beeck VC, **Fischer J**, Tyack PL, ten Cate C, Janik VM (2021)  
**The multi-dimensional nature of vocal learning**  
Philosophical Transactions of the Royal Society B: Biological Sciences 376: 20200236.  
<https://doi.org/10.1098/rstb.2020.0236>



- (14) Zinner D, Klapproth M, Schell A, Ohrndorf L, Chala D, Ganzhorn JU, **Fischer J** (2021)  
**Comparative ecology of Guinea baboons (*Papio papio*)**  
Primate Biology 8: 19–35
- (15) Rathke EM & **Fischer J** (2021)  
**Social aging in male and female Barbary macaques**  
American Journal of Primatology e23272, doi:10.1002/ajp.23272
- (16) Keupp S, Abedin F, Jeanson L, Kade C, Kalbitz J, Titchener R, Mussweiler T, Bugnyar T, **Fischer J** (2021)  
**Performance-based social comparisons in humans and long-tailed macaques**  
Animal Behavior and Cognition 8(3): 325-350
- (17) Wilson V, Kade C, **Fischer J** (2021)  
**Testing the relationship between looking time and choice preference in long-tailed macaques**  
Animal Behavior and Cognition 8(3): 351-375
- (18) Dal Pesco F, Trede F, Zinner D, **Fischer J** (2021)  
**Kin bias and male pair-bond status shape male-male relationships in a multilevel primate society**  
Behavioural Ecology and Sociobiology 75(1): 24
- (19) **Fischer J** (2021)  
**Primate vocal communication and the evolution of speech**  
Current Directions in Psychological Science 30(1): 55–60
- (20) Grueter CC, Qi X, Zinner D, Bergman TJ, Li M, Xiang Z, Zhu P, Miller A, Krützen M, **Fischer J**, Rubenstein DI, Vidya TNC, Li B, Cantor M, Swedell L (2021)  
**On multifaceted definitions of multilevel societies: Response to Papageorgiou and Farine**  
Trends in Ecology & Evolution 36(1): 17-19.
- (21) Trede F, Kil N, Stranks J, Connell A, **Fischer J**, Ostner J, Schülke O, Zinner D, Roos C (2021)  
**A refined panel of 42 microsatellite loci to universally genotype catarrhine primates**  
Ecology and Evolution 11(1): 498-505
- (22) **Fischer J**, Wegdell F, Trede F, Dal Pesco F, Hammerschmidt K (2020)  
**Vocal convergence in a multi-level primate society: insights into the evolution of vocal learning**  
Proceedings of the Royal Society B 287: 20202531
- (23) Rathke E-M, **Fischer J** (2020)  
**Differential aging trajectories in motivation, inhibitory control and cognitive flexibility in Barbary macaques (*Macaca sylvanus*)**  
Philosophical Transactions of the Royal Society B: Biological Sciences 375: 20190617
- (24) Dal Pesco F, **Fischer J** (2020)  
**On the evolution of baboon greeting rituals**  
Philosophical Transactions of the Royal Society B: Biological Sciences 375: 20190420
- (25) Placi S, **Fischer J**, Rakoczy H (2020)  
**Do infants and preschoolers quantify probabilities based on proportions?**  
Royal Society Open Science 7(9): 191751
- (26) Wilson V, Kade C, Moeller S, Treue S, Kagan I, **Fischer J** (2020)  
**Macaque gaze responses to the Primatar: a virtual macaque head for social cognition research**  
Frontiers in Psychology 11: 1645
- (27) Farrar BG, Altschul DM, **Fischer J**, van der Mescht J, Placi S, Troisi CA, Vernouillet A, Clayton NS, Ostojčić L (2020)  
**Claims and statistical inference in animal physical cognition**  
Animal Behavior and Cognition 7(3): 419–444
- (28) **Fischer J** (2020)  
**Nonhuman primate alarm calls then and now**  
Animal Behaviour and Cognition 7(2), 108-116

- (29) **Fischer J, Zinner D (2020)**  
**Introduction to special issue: Frontiers in baboon research**  
 Journal of Human Evolution 146: 102822
- (30) Grueter CC, Qi X, Zinner D, Bergman TJ, Li B, Xiang Z, Zhu P, Migliano AB, Miller A, Krützen M, **Fischer J**, Rubenstein DI, Vidya TNC, Cantor M, Swedell L (2020)  
**Multilevel organisation of animal sociality**  
 Trends in Ecology & Evolution 36(9): 834-847
- (31) **Fischer J**, Higham JP, Alberts SC, Barrett L, Beehner JC, Bergman TJ, Carter A, Collins A, Elton S, Fagot J, Ferreira da Silva M, Hammerschmidt K, Henzi P, Jolly C, Knauf S, Kopp G, Rogers J, Roos C, Ross C, Seyfarth RM, Silk J, Snyder-Mackler N, Städele V, Swedell L, Wilson ML, Zinner D (2019)  
**The natural history of model organisms: Insights into the evolution of social systems and species from baboon studies**  
 Elife 8: e50989
- (32) Wegdell F, Hammerschmidt K, **Fischer J** (2019)  
**Conserved alarm calls but rapid auditory learning in monkey responses to novel flying objects**  
 Nature Ecology and Evolution 3: 1039-1042
- (33) **Fischer J**, Hammerschmidt K (2019)  
**Towards a new framework for primate vocal production learning**  
 Philosophical Transactions of the Royal Society B 375: 20190045
- (34) Faraut L, Siviter H, Dal Pesco F, **Fischer J** (2019)  
**How life in a tolerant society affects the usage of grunts: Evidence from female and male Guinea baboons**  
 Animal Behaviour 153: 83-93
- (35) Faraut L, **Fischer J** (2019)  
**How life in a tolerant society affects the attention to social information in baboons**  
 Animal Behaviour 152: 11-17
- (36) Keupp S, Titchener R, Bugnyar T, Mussweiler T, **Fischer J** (2019)  
**Competition is crucial for social comparison processes in long-tailed macaques**  
 Biology Letters 15: 20180784
- (37) Hülsmann S, Oke Y, Mesuret G, Latal AT, Fortuna MG, Niebert M, Hirrlinger J, **Fischer J**, Hammerschmidt K (2019)  
**The postnatal development of ultrasonic vocalization-associated breathing is altered in glycine transporter 2-deficient mice**  
 Journal of Physiology 597(1): 173-191
- (38) Hammerschmidt K, **Fischer J** (2019)  
**Baboon vocal repertoires and the evolution of primate vocal diversity**  
 Journal of Human Evolution 126: 1-13
- (39) Placi S, Padberg M, Rakoczy H, **Fischer J** (2019)  
**Long-tailed macaques extract statistical information from repeated types of events to make rational decisions under uncertainty.**  
 Scientific Reports 9: 12107.
- (40) Many Primates on behalf of Altschul DM, Beran MJ, Bohn M, Call J, DeTroy S, Duguid SJ, Egelkamp CL, Fichtel C, **Fischer J**, Flessert M, Hanus D, Haun DBM, Haux LM, Hernandez-Aguilar RA, Herrmann E, Hopper LM, Joly M, Kano F, Keupp S, Melis AP, Motes Rodrigo A, Ross SR, Sánchez-Amaro A, Sato Y, Schmitt V, Schweinfurth MK, Seed AM, Taylor D, Völter CJ, Warren E, Watzek J (2019)  
**Establishing an infrastructure for collaboration in primate cognition research**  
 PLoS One 14: e0223675.
- (41) Goffe AS, **Fischer J**, Sennhenn-Reulen H (2018)  
**Bayesian inference and simulation approaches improve the assessment of Elo-ratings in the analysis of**

**social behaviour**

Methods in Ecology and Evolution 9(10): 2131-2144

- (42) Dal Pesco F, **Fischer J** (2018)  
**Greetings in male Guinea baboons and the function of rituals in complex social groups**  
Journal of Human Evolution 125: 87-98
- (43) Keupp S, Barbarroja Capdevila N, Topolinski S, **Fischer J** (2018)  
**Are monkeys intuitive Aristotelians? – Associations between target size and vertical target position in long-tailed macaques**  
Royal Society Open Science 5: 170889
- (44) Ordóñez-Gómez JD, Santillán-Doherty AM, **Fischer J**, Hammerschmidt K (2018)  
**Acoustic variation of spider monkeys' contact calls (whinnies) is related to distance between vocalizing individuals and immediate caller behavior**  
American Journal of Primatology 80(4): e22747
- (45) Placi S, Eckert J, Rakoczy H, **Fischer J** (2018)  
**Long-tailed macaques (*Macaca fascicularis*) can use simple heuristics but fail at drawing statistical inferences from populations to samples**  
Royal Society Open Science 5(9): 181025
- (46) Jürgens R, **Fischer J**, Schacht A (2018)  
**Hot speech and exploding bombs: Autonomic arousal during emotion classification of prosodic utterances and affective sounds**  
Frontiers in Psychology doi:10.3389/fpsyg.2018.00228
- (47) **Fischer J**, Wadewitz P, Hammerschmidt K (2017)  
**Structural variability and communicative complexity in acoustic communication**  
Animal Behaviour 134: 229-237
- (48) Almeling L, Sennhenn-Reulen H, Hammerschmidt K, Freund AM, **Fischer J** (2017)  
**Social interactions and activity patterns of old Barbary macaques: further insights into the foundations of social selectivity**  
Animal Behaviour 79 (11): e22711
- (49) **Fischer J** (2017)  
**The fish is wearing trousers: Taking issue with the theory of affective pragmatics**  
Psychological Inquiry 28 (2-3): 194-196
- (50) **Fischer J** (2017)  
**On the social life and motivational changes of aging monkeys**  
Gerontology 63: 572-579
- (51) **Fischer J** (2017)  
**Primate vocal production and the riddle of language evolution**  
Psychonomic Bulletin & Review 24(1): 72–78
- (52) **Fischer J**, Farnworth MS, Sennhenn-Reulen H, Hammerschmidt K (2017)  
**Quantifying social complexity**  
Animal Behaviour 130: 57-66
- (53) Tididi B, Polizzi di Sorrentino E, **Fischer J**, Schino G (2017)  
**Acquisition and functional consequences of social knowledge in macaques**  
Royal Society Open Science 4: 160639
- (54) **Fischer J**, Price T (2017)  
**Meaning, intention, and inference in primate vocal communication**  
Neuroscience & Biobehavioral Reviews 82: 22-31
- (55) **Fischer J**, Kopp GH, Dal Pesco F, Goffe A, Hammerschmidt K, Kalbitzer U, Klapproth M, Maciej P, Ndao I, Patzelt A, Zinner D (2017)

- Charting the neglected West: the social system of Guinea baboons**  
Yearbook of Physical Anthropology 162: 15-31
- (56) Almeling L, Hammerschmidt K, Sennhenn-Reulen H, Freund AM, Fischer J (2016)  
**Motivational shifts in aging monkeys and the origins of social selectivity**  
Current Biology 26:1744-1749
- (57) Benítez ME, le Roux A, Fischer J, Beehner JC, Bergman TJ (2016)  
**Acoustic and temporal variation in Gelada (*Theropithecus gelada*) loud calls advertise male quality**  
International Journal of Primatology 37: 568–585
- (58) Kalbitzer U, Roos C, Kopp GH, Butynsk TM, Knauf S, Zinner D, Fischer J (2016)  
**Insights into the genetic foundation of aggression in *Papio* and the evolution of two length-polymorphisms in the promoter regions of serotonin-related genes (5-HTTLPR and MAOALPR) in Papionini**  
BMC Evolutionary Biology 16: 121
- (59) Goffe AS, Fischer J (2016)  
**Meat sharing between male and female Guinea baboons (*Papio papio*)**  
Primate Biology 3: 1-8
- (60) Goffe A, Zinner D, Fischer J (2016)  
**Sex and friendship in a multilevel society: behavioural patterns and associations between female and male Guinea baboons**  
Behavioural Ecology and Sociobiology 70: 323–336
- (61) Pfefferle D, Hammerschmidt K, Mundry R, Ruiz-Lambides AV, Fischer J, Widdig A (2016)  
**Does the structure of female rhesus macaque coo calls reflect relatedness and/or familiarity?**  
PLoS One 11(8): e0161133
- (62) Schmitt V, Federspiel I, Eckert J, Keupp S, Tschernek L, Faraut L, Schuster R, Michels C, Sennhenn-Reulen H, Bugnyar T, Mussweiler T, Fischer J (2016)  
**Do monkeys compare themselves to others?**  
Animal Cognition 19: 417–428
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