

CURRICULUM VITAE

Daniel I. Rubenstein
Class of 1877 Professor of Zoology
 Department of Ecology and Evolutionary Biology
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Education

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| B.S. | 1972 | University of Michigan |
| Ph.D. | 1977 | Duke University |
| M.A. | 1978 | Cambridge University, England |
| Post-doctoral | 1977-1980 | King's College, Cambridge, England |
| M.A. | 2003 | Oxford University, England |

Academic and Research Appointments

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|--------------|---|
| 2016-present | Director, Program in Environmental Studies, Princeton Environmental Institute |
| 2014-present | Director of International Field Studies, Department of Ecology and Evolutionary Biology |
| 2008-present | Class of 1877 Professor of Zoology, Princeton University |
| 2004-2015 | Director, Program in African Studies, Princeton University |
| 1991-present | Professor, Department of Ecology and Evolutionary Biology |
| 1991-2014 | Chair, Department of Ecology and Evolutionary Biology |
| 1990-1991 | Associate Professor, Department of Ecology and Evolutionary Biology |
| 1986-1990 | Associate Professor, Program in Ecology, Evolution and Behavior |
| 1980-1986 | Assistant Professor, Department of Biology, Princeton University |
| 1977-1980 | Research Fellow, King's College, Cambridge University, U.K. |

Honors and Awards

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| 2018 | Visiting Fellow, King's College, Cambridge University |
| 2018 | Animal Behavior Society, Exemplar Award: Major Long-Term Contribution to Animal Behavior |
| 2018 | Society of Sigma Xi, John P. McGovern Science and Society Award, |
| 2017 | ACM SIGMOBILE Test-of-time Paper Award |
| 2017 | Environmental Research Letters Highlights of 2016 collection |
| 2015 | Visiting Research Scholar, Merton College, Oxford University |
| 2015 | Grevy's Zebra Technical Committee, Kenya |
| 2015-2017 | Visiting Professorship, Sydney University |
| 2013-2015 | President and Past President, Animal Behavior Society |
| 2011-2014 | Visiting Professor, University of Sydney, Australia |
| 2013-2015 | Visiting Fellowship, Ben-Gurion University of the Negev |
| 2011-2013 | President-elect, Animal Behavior Society |
| 2008-09 | Visiting Scholar, Institute for Advanced Study, Princeton, NJ |
| 2008 | International Visiting Research Fellowship, University of Sydney, Australia |
| 2008 | Murray Lectureship, University of Sydney, Australia |
| 2007 | Animal Behaviour 'Top Reviewer' |
| 2003 | Elected Fellow, American Association for the Advancement of Science (AAAS) |
| 2001 | George Eastman Professorship, Oxford University (2003-04) |

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| 1999 | Princeton University, President's Award for Distinguished Teaching |
| 1998 | Elected Fellow, Animal Behavior Society |
| 1995-2001 | Committee on Membership of Sigma Xi, The Scientific Research Society |
| 1994-1995 | President, Princeton Chapter, Sigma Xi, The Scientific Research Society |
| 1993 | Fellowship from Japan Society for the Promotion of Science |
| 1987 | Merton College Visiting Research Fellowship |
| 1984-1991 | NSF Presidential Young Investigator Award |
| 1977-1981 | King's College Research Fellowship |
| 1976-1977 | Fellowship in Science and Public Affairs |
| 1974 | Society of Sigma Xi |
| 1972 | Phi Beta Kappa |

Research Awards

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| 2016 – present | San Diego Zoo Global: New Technologies in Support of Grevy's Zebra Conservation Integrating Genomes, Microbiomes, Parasites, Diets, and Demography |
| 2014 – present | Leverhulme Trust Contract - Emotional Awareness as a Basis for Social Success in a Non-Human: The Domestic Horse |
| 2014 – present | The Nature Conservancy: NatureNet Science Fellows Program |
| 2014 – present | NSF: EAGER-NEON: IBEIS: Combining Computer Vision and Mark-Recapture Data for NEON |
| 2014 – present | NSF: "Collaborative Research: EAGER: Prototype of an Image-Based Ecological Information System (IBEIS)" |
| 2012 - present | NSF: INSPIRE: Mingle: Sensing the Interactions of Animals |
| 2012 - 2015 | NSF: The Ontogeny of Male-Male Bonds in Wild Ethiopian Geladas (<i>Theropithecus gelada</i>). Princeton University, Ethiopia. |
| 2012 | NSF: Meeting: The Future of Research in Animal Behavior, Airlie Center, Warrenton VA, 27 April May 2012 |
| 2011-2012 | NSF: Field Computational Ecology Course, Northern Kenya |
| 2011-2012 | USAID: University of Colorado, Livestock-Climate CRSP: A cost-effectiveness framework for Landscape rehabilitation and carbon sequestration in North Kenya |
| 2007-2011 | NSF IIS-CXT: Collaborative Research: Computational Methods for Understanding Social Interactions in Animal Populations |
| 2007-2011 | NSF FSML: Improvements in Facilities, Site Access and Data Management at Mpala Research Centre, Kenya |
| 2006-2010 | Oxford-Princeton Partnership Development: Tracking Animals for Conservation |
| 2006-2010 | PIIRS Interdisciplinary Research Initiative: Water, Savannas, and Society in Sub-Saharan Africa, and Technology for the Developing Regions |
| 2006-2010 | Denver Zoological Foundation and Princeton University: Grevy's Zebra/Lion Predator-Prey Relations |
| 2003-2006 | St. Louis Zoo: Population dynamics of Grevy's Zebra |
| 2003-2006 | St. Louis Zoo: Expanding Role of Communities in Grevy's Zebra Conservation |
| 2002-2007 | NSF: Wildlife Movements and Animal Tracking: Wireless Collars and 'Zebranet' |
| 2002-2005 | St. Louis Zoo: Conservation of Grevy's Zebra |
| 2002-2005 | St. Louis Zoo: Developing the Role of Communities in Conservation of Grevy's Zebra |
| 2001-2005 | NSF: Field Station Improvement: Mpala Research Center, Kenya |
| 2001-2006 | PEW: Program in Biocomplexity (Graduate student & postdoctoral training program) |
| 2000-2004 | NSF: Biocomplexity: Animal Movements on Human Impacted Landscapes |
| 1999-2005 | NSF: Zebra Social Behavior: Evolution of Multi-level Societies |
| 1995-1999 | NPS: Horse Social Behavior |
| 1989-1995 | BSF: Onager Social Behavior |

1983-1985 NSF: Alternative Mating Strategies: Waterstrider Social Dynamics
1980-1983 NIMH: Zebra Mating Systems
1978 NSF-NATO: Post-doctoral Fellowship
1972-1975 NSF: Graduate Fellowship

Editorial Activities

2017-present Associate Editor, *Journal of Ethology, Japan*
2015-present Editor, *Environmental Research Reviews*
2007-present Editorial Board, *Environmental Research Letters*
2009-present Editorial Board, *Current Zoology*
2009-present Editorial Board, *International Journal of Ecology*
2007 Animal Behavior ‘Top Reviewer’
2006-present Editorial Board, *Israel Journal of Ecology and Evolution*
1999-present Editorial Board, *Evolutionary Ecology Research*
1991-2000 Associate Editor, *Behavioral Ecology and Sociobiology*
1992-1996 Associate Editor, *Ecological Applications*
1990-1998 Associate Editor, *Evolution*
1979-1980 Consulting Editor, *Animal Behaviour*

Membership in Professional Societies

American Association for the Advancement of Science
Animal Behavior Society
British Ecological Society
Citizen Science Association
Ecological Society of America
Sigma Xi
Society for the Study of Evolution
Society of Conservation Biology
International Society for Behavioral Ecology

Continuing Extramural Activities

Princeton University’s representative to Mpala Research Centre Science Advisory Board (Chair)
Board of Directors, Mpala Research Trust
Board of Directors, The Patricia William Mwangaza Foundation, Inc.
Board of Trustees & President, Friends of the Hopewell Valley Open Space
Board of Trustees, Hawk Mountain Sanctuary
Board of Trustees, Earthwatch United States
IUCN Equid Specialist Group—Species Survival Commission (Grevy’s zebra coordinator)
NSF Animal Behavior and Education Review Panels
Committee member, Grevy’s Zebra Technical Committee, Kenya Wildlife Service

Selected Professional Activities

2018

Winter Animal Behavior Society Conference, Steamboat Springs, CO, Speaker
Great Grevy’s Rally Coordinator, Lakipia, Kenya
Food & Sustainability Committee Princeton University, Seminar Speaker
Rice University, Seminar Speaker
Sigma Xi Annual Meeting, Keynote Speaker
Cambridge University, Zoology Department Seminar Speaker

Cambridge University, King's College, Seminar Speaker
Cambridge University, Conservation Initiative
Durham University, Seminar Speaker
Chester Zoo, Seminar Speaker
Konstanz University, Seminar Speaker
Princeton Reunions Food Symposium, Speaker

2017

University of Wisconsin, Emlen Lectures
East African Wildlife Association, New York, Keynote Speaker
Managing Subjective Risk Conference, Berlin, Co-organizer & Keynote Speaker
The Earth in 2050: Boundaries, Obstacles, and Opportunities, Princeton, Speaker
Lecture, Stony Brook University, Kenya, Speaker
New Ways of Cattle Rearing Workshop, Kenya, Organizer & Speaker
Grevy's Zebra Technical Committee, Kenya, Organizer for GGR2
Symposium on Movement and Migration, Tel Aviv, Israel, Speaker
Citizen Science Symposium Organizer & Speaker, AAAS Annual Meeting, Boston, MA
Lecture, Department of Psychology, Columbia University
Lecture, Food Sustainability Symposium, Princeton University
Food & Sustainability Committee Princeton University
SAMSI workshop on Data Driven Modeling in Animal Behavior, Raleigh, NC, Participant
Advisory Committee, Biology Department, Oxford University
Cognitive Social Dynamics Meeting, Princeton University, Speaker
Sustainable Development Goals Symposium Organizer & Speaker, Eco.Soc.America, Portland, OR
Speaker, Animal Behavior Society, Toronto, Canada

2016

National Museums of Kenya, Unlocking Citizen Science Potential, Keynote Speaker
TNC NatureNet Symposium, Washington, DC, Speaker
Great Grevy's Rally Black and White Ball, Keynote presenter of final results
Great Grevy's Rally, Kenya, Organizer
Kids Twiga Tally (Giraffe Count), Laikipia, Kenya, Organizer
AAAS Annual Meeting, Washington, DC, Symposium Organizer & Speaker
Ramat Hanadiv Nature Park, Israel, Keynote Speaker
Princeton Club, Toronto, Canada, Speaker
Wagner College, Staten Island, NY, Seminar speaker
NJIT Collective Behavior Workshop, Newark, NJ, Collaborator
MIT Citizen Science "Call of the Wild" Symposium, Boston, MA, Speaker
Unlocking Africa's Potential for Citizen Science, Kenya, Speaker

2015

Great Zebra and Giraffe Count, Nairobi, Kenya
Invited Speaker, Tulane University (series of lectures)
Reality Mining Workshop, Princeton, NJ
Invited Speaker, African Studies Indaba, Princeton University
Invited Speaker, US Embassy, Nairobi, Kenya
Rutgers University Field School, Kenya
AMNH Conservation Conference, New York, NY, Lecturer
Reality Mining Workshop, Berlin, Germany
Great Zebra and Giraffe Count, Nairobi, Kenya

TNC NatureNet Symposium, Washington, DC, Speaker
TNC Research Symposium, San Jose, CA
Animal Behavior Society, Anchorage, Alaska, Presidents' symposium organizer & speaker
AAAS Annual Meeting, San Jose, CA, Symposium Organizer & Speaker
International Equine Society Meeting, Stuttgart, Germany, Keynote Speaker
Rutgers University/NJ Institute Technology, Seminar speaker
University of Manchester, UK. Seminar speaker
Humboldt University, Workshop Participant & Speaker

2014

TNC NatureNet Symposium, Washington, DC
TNC Research Symposium, San Jose, CA
Kazak Scout and Conservation Managers Workshop on Przewalski Horse, Khulan and Sheep Interactions and Management, XinJiang, China
Public Lecture, Hawk Mountain Sanctuary
AAAS, Annual Meeting, Chicago, Symposium Speaker
Lecturer, University of Pennsylvania Seminar
Lecturer, University of California – Los Angeles Seminar
Lecturer, Ways of Knowing, Princeton University
Lecturer, Princeton Football Lecture Series
Kenyan US Ambassador Workshop, Princeton
Public Lecture, UCLA
Mpala Discovery Day, Kenya
Presidential Keynote & Local Host, Animal Behavior Society Conference – Princeton University
Review Committee, Israel Nature and Park Authority
Keynote (2), Israel Ecological Society
Lecturer, Princeton Food Studies Conference
Lecturer, Systematic Risk in Global Agriculture, Princeton University
Film Festival “The Art of Science Story Telling,” Princeton University

2013

National Academy Committee on Wild Horse and Burro Management (Committee Member)
AAAS, Annual Meeting, Boston
NatureNet Selection Committee, The Nature Conservancy
Distinguished Lecturer, University of Brunei Darussalam
Public Lecture, Hawk Mountain Sanctuary
Public Lecture, Princeton Club, Phoenix
Rutgers University (Darwin Day Lecture)
Animal Behavior Society Annual Meeting, Colorado (President-Elect, Symposium Organizer)
International Equine Conference, Kentucky (Keynote speaker)
AMNH Conservation Conference, New York, NY (Lecturer)
Princeton Club of New York (Lecturer)
University of Ben-Gurion (Fellowship/Public Lectures)

2012

International Wild Equid Meeting, Vienna, Austria (Keynote speaker)
International Equine Science Meeting, Regensburg, Germany (Keynote speaker)
National Academy Committee on Wild Horse and Burro Management (Committee Member)
Symposium on Animal Movements, Lund, Sweden (Keynote speaker)
AMNH Conservation Conference, New York, NY (Lecturer)

Packard Meeting (The Nature Conservancy Fellows Program), Palo Alto, CA (Participant)
Animal Behavior Society Annual Meeting, New Mexico (President-Elect, Symposium Organizer)

2011

25th International Congress of Conservation Biology (ICCB), Society of Conservation Biology, Auckland, New Zealand (Lecturer)
48th Annual Meeting of the Animal Behavior Society, Bloomington, Indiana (Lecturer)
Department of Ecology and Evolutionary Biology Seminar, Yale University, CT (Lecturer)
School of Natural Resources & the Environment, Dean's Lecture Series, University of Michigan, Ann Arbor (Lecturer)
Animal Behavior grant review panel, National Science Foundation, Arlington, VA
Works and Process Seminar Series, Guggenheim Museum, New York City (Lecturer)
Master's Seminar, Balliol College, New York City (Lecturer)
International Equine Conference: Equine Welfare, Preservation and Public Health, Alexandria, VA (Lecturer)
University of Michigan School of Natural Resources (Lecturer)

2010

28th Annual Ethology Meeting—Animal Behavior and Conservation, University of Alfenas, Brazil (Keynote speaker)
The Altenberg Symposia in Theoretical Biology: Connecting the Threads—Network Theory for Living Systems, University of Vienna (Lecturer)
Ecology, Evolution and Environmental Biology Graduate Research Seminar, Columbia University, NY (Lecturer)
Duke University Marine Laboratory, Beaufort, NC (2 Lectures)
Science Faculty Engagement in High School: How does it work? Faculty conversation. Hunter College, NY
From Mongolia to Maasailand: A comparative assessment of linkages between pastoralist land rights and social-ecological sustainability. An exploratory workshop sponsored by the Princeton Institute for International and Regional Studies (PIIRS), Princeton, NJ (Co-organizer & Lecturer)
Evolution, Ethics and Environment, Symposium to honor the Inamori Foundation and the Kyoto Prize Laureates, Princeton University (Co-organizer & Lecturer)
University of Laval, Department of Biology, Quebec City, Canada (Lecturer)
Beijing Forestry University, Beijing, China (Lecturer)
Rutgers University, New Brunswick, NJ (Lecturer)
'Discovery Day', Mpala Research Centre, Kenya (Lecturer)
55Plus Retirement Group, Princeton, NJ (Lecturer)

2009

46th Annual Meeting of the Animal Behavior Society, Pireópolis, Brazil (Presidential Lecture)
Storer Life Sciences Lecturer in 'Major Issues in Modern Biology', University of California, Davis
NJ State Museum, Science Lecture Series, Trenton (Lecturer)
Anne B. Sheperd Lecturer, Princeton Adult School, Princeton, NJ
5th Annual Plant Biology Initiative Symposium: Mutualism & Evolution of Cooperation and Trading, Harvard University, Cambridge, MA (Lecturer)
Department of Biology, University of Missouri, Columbia (Lecturer)

2008

3rd Annual Orna Eshed Memorial Symposium, 'Ungulates and the Mountain Gazelle', Ohalo College in Qatzrin, the Golan Heights, Israel (Keynote Speaker)

Annual Meeting of the Israel Zoological Society, Ruppin Academic College, School of Marine Sciences, Michmoret, Israel (Keynote Speaker)
Fenner School of Environment and Society, Australian National University (Lecturer)
Workshop on ‘Collective Actions–Individuals to Populations’, Sydney Institute of Marine Sciences, AU (Lecturer)
12th Congress of the International Society for Behavioral Ecology (ISBE), Cornell University (Lecturer)
From Field Observations to Mechanisms: A program in evolutionary biology. Festschrift to honor Peter and Rosemary Grant, Princeton University (Co-organizer & Lecturer)
St. Louis Zoological Park, St. Louis, MO (Lecturer)
Symposium on Energy, Climate and the Environment, National Academy of Engineering, Princeton University (Lecturer)
Department of Biological Sciences, University of New Orleans, LA (Lecturer)
Sustaining the Global Common, workshop sponsored by the Princeton Institute for International and Regional Studies (PIRS), Princeton, NJ (Co-organizer & Lecturer)

2007

European Science Foundation (ESF), Eurocores TECT Conference “The Evolution of Cooperation and Trading”, Budapest, Hungary (Lecturer)
ESF Eurocores Workshop: Studying the Challenges of the Global Commons, Stockholm, Sweden (Co-organizer & Lecturer)
International Equid Research Programme Workshop, Oxford, UK (Lecturer)
Museum of Vertebrate Zoology, University of California, Berkeley (Lecturer)

University Service (Current)

Director, Program in Environmental Studies (ENV), Princeton Environmental Institute
Director of Field Studies, Ecology and Evolutionary Biology
Director, Princeton-Columbia Program in Tropical Biology and Sustainability
Director, Mpala Grand Challenges Initiative, Princeton Environmental Institute
Board of Directors, Princeton in Africa
Board of Directors and Chair of Science Advisory Council, Mpala Research Center
Princeton University IACUC
Executive Committee, Princeton Environmental Institute (PEI)
Executive Committee, Program in Global Health & Health Policy (GHP)
Executive Committee, Program in Teacher Preparation
Executive Committee, Laboratory Animal Research (LAR)
Executive Committee, Certificate in Ethnographic Studies
Executive Committee, Global Health Policy Program
Life Sciences Research Foundation Review Committee
Faculty Fellow, Butler College

PUBLICATIONS

Books Edited

National Research Council. (2013). Using science to improve the BLM Wild Horse and Burro Program: A way forward. National Academies Press. 630 pp. (Authors: Asa, C., Beever, E., Coughenour, M., Eggert, L., Garrott, R., Huntsinger, L., Kalof, L., Krausman, P., Oli, M., Palmer, G., Petersen, S., Powell, D., Rubenstein, D., Thain, D.)

Rubenstein, D. I., & R. W. Wrangham, eds. (1986). *Ecological Aspects of Social Evolution: Birds and Mammals*. Princeton University Press, Princeton, NJ. Pp. 551.

Bertram, B. C. R., T. H. Clutton-Brock, R. I. M. Dunbar, D. I. Rubenstein & R. W. Wrangham (1982). *Current Problems in Sociobiology*. Cambridge University Press.

Manuscripts submitted for review

Anping, C, Reperant, L., Fischhoff, I. & **Rubenstein, D.I.** Increased vigilance of plains zebras in response to more bush coverage in Laikipia, Kenya

Fischer, I., Levin, S., & **Rubenstein, D.I.** The evolution of wealth: socially constrained rationality and equality in competition with imbalanced opportunities.

O'Bryan, L., Abaid, N., Nakayama, T.D., King, A., Cowlshaw, A., **Rubenstein, D.I.** & Garnier, S. The role of contact calls in the re-establishment of group cohesion.

Ng'weno, C., Buskirk, S., Georgiadis, N., Gituku, B., Kibungei, A., Porensky, L., **Rubenstein, D.I.** & Green, J. Apparent competition, lion predation, and managed livestock grazing: can conservation value be enhanced?

Tombak, T., Wikberg, E., **Rubenstein, D.I.**, Sicotte, P. & C. Chapman, Cracking the code of conduct: traits that structure female social networks in egalitarian primates.

Articles

2018

Cabal, C. & **Rubenstein, D.I.** (2018) Above- and below-ground biomass allocation and functional trait response to soil water inputs and evaporation of two common savanna grasses. *Journal of Arid Environments*, 157, 1-12, DOI: 10.1016/j.jaridenv.2018.06.008.

Caputo, M., **Rubenstein, D.I.**, Froneman, P.W., Bouveroux, T. (2018). Striping patterns may not influence social interactions and mating in zebra: Observations from melanic zebra in South Africa. *African Journal of Ecology*, 56:428–431, DOI: 10.1111/aje .12463.

Costelloe, B.R. & **Rubenstein, D.I.** (2018). Temporal structuring of vigilance behaviour by female Thomson's gazelles with hidden fawns. *Animal Behaviour*. 145, 87-97, DOI: 10.1016/j.anbehav.2018.09.007.

Crawford, .C.L., Volenec, Z.M., Sisanya, M., Kibet, R., **Rubenstein, D.I.** (2018). Behavioral and ecological implications of bunched, rotational cattle grazing in east African savanna ecosystem. *Rangeland Ecology & Management*, 72: 1, 204-209. DOI: 10.1016/j.rama.2018.07.016.

Henry, L.P., Tokita, C.K., Misra, M., & **Rubenstein, D.I.** (2018). Mutualistic acacia ants exhibit reduced aggression and more frequent off-tree movement near termite mounds. *Biotropica* 50(4): 559–562, DOI: 10.1111/btp.12572.

Kulahci, I.G, Ghazanfar, A.A., & **Rubenstein, D.I.** (2018) Consistent individual variation across interaction networks indicates social personalities in lemurs. *Animal Behaviour*. 136. 217-226, DOI: 10.1016/j.anbehav.2017.11.012.

Kulahci, I., Ghazanfar, A., & **Rubenstein, D.I.** (2018). Knowledgeable lemurs become more central in social networks. *Current Biology* 28 (8), 1306-1310. e2, DOI: 10.1016/j.cub.2018.02.079.

- Monk, C.T., Barbier, M., Romanczuk, P., Watson, J.R., Alós, J., Shinnosuke N., **Rubenstein, D.I.**, Levin, S., Arlinghaus, R. (2018). How ecology shapes exploitation: a framework to predict the behavioural response of natural resource users along exploration-exploitation tradeoffs. *Ecology Letters*. 21 (6), 779-793, DOI: 10.1111/ele.12949.
- O'Brien, T.G., Kinnaird, M.F., Ekwanga, S., Wilmers C., Williams, T., Oriol-Cotterill, A., **Rubenstein, D.I.**, Frank, L.G. (2018). Resolving a conservation dilemma: Vulnerable lions eating endangered zebras. *PLoS One* 13 (8), DOI: 10.1371/journal.pone.0201983.
- Parham, J., Stewart, C., Crall, J., Rubenstein, D.I., Holmberg, J., & Berger-Wolf, T. (2018). Focusing animal identification with annotations of interest. 2018 IEEE Winter Conference on Applications of Computer Vision (WACV), 1075-1083.
- Rubenstein, D.I.** (2018). Moving beyond structure to function. *Animal Behaviour*. 136, 173-174, DOI: 10.1016/j.anbehav.2018.01.001.
- Schuttler, S., **Rubenstein, D.I.**, et al (2018). Citizen science in schools: Students collect valuable mammal data for science, conservation, and community engagement. *BioScience*. DOI: 10.1093/biosci/biy141.
- Tucker, M.A., Böhning-Gaese, K., Fagan, W.F., Fryxell, J.M., Moorter, B., **Rubenstein, D.I.** et al. (2018). Moving in the Anthropocene: global reductions in terrestrial mammalian movements. *Science*. 359 (6374), 466-469, 10.1126/science.aam9712.

2017

- Berger-Wolf, T., **Rubenstein, D.I.**, Stewart, C.V., Holmberg, J.A., Parham, J., Meron, S., Crall, J., van Oast, J., Kiciman, E. & L. Joppa. (2017) Wildbook: Crowdsourcing, computer vision and data science for conservaton. Presented at *The Data for Good Exchange 2017*. arXiv:1710.08880 [cs.CY].
- Gersick, A. S., & **Rubenstein, D. I.** (2017). Physiology modulates social flexibility and collective behaviour in equids and other large ungulates. *Phil. Trans. R. Soc. B*, 372(1727), 20160241, DOI: 10.1098/rstb.2016.0241.
- Greenbaum, G., Renan, S., Templeton, A.R., Bouskila, A., Saltz, D., **Rubenstein, D.I.**, & Bar-David, S. (2017). Revealing life-history traits by contrasting genetic estimations with predictions of effective population size. *Conservation Biology*. 32 (4), 817-827, DOI: 10.1111/cobi.13068.
- Hauck, S., & **Rubenstein, D. I.** (2017). Pastoralist societies in flux: A conceptual framework analysis of herding and land use among the Mukugodo Maasai of Kenya. *Pastoralism*, 7(1), 18, DOI: 10.1186/s13570-017-0090-4.
- Kendall, C.J., **Rubenstein, D.I.**, Slater, P.L., Monadjem, A. (2017). An assessment of tree availability as a possible cause of population declines in scavenging raptors. *Avian Biology*, DOI: 10.1111/jav.01497.
- Núñez, C. M., Adelman, J. S., Carr, H. A., Alvarez, C. M., & **Rubenstein, D. I.** (2017). Lingering effects of contraception management on feral mare (*Equus caballus*) fertility and social behavior. *Conservation Physiology*, 5(1), cox018, DOI: 10.1093/conphys/cox018.
- Núñez, C. M., Adelman, J. S. A., Carr, H.A., Knight, C., & **Rubenstein, D.I.**. (2017) "Prolonged Effects of Contraception Management on Feral Horse (*Equus Caballus*) Reproductive Physiology and Behavior." In *INTEGRATIVE AND COMPARATIVE BIOLOGY*, vol. 57, pp. E366-E366, DOI: 10.1093/icb/icx002.
- Odadi, W. O., Fargione, J., & **Rubenstein, D. I.** (2017). Vegetation, wildlife and livestock responses to planned grazing management in an African pastoral landscape. *Land Degradation & Development*. 28 (7), 2030–2038, DOI: 10.1002/ldr.2725.

Parham, Crall, J., Stewart, C., Berger-Wolf, T., & **D.I. Rubenstein**. (2017) AAAI 2017 Spring Symposium on AI for Social Good, Stanford, CA, 2017.

Schieltz, J.M., Okanga, S., Allan, B.F., & **Rubenstein, D.I.** (2017) GPS tracking cattle as a monitoring tool for conservation and management, *African Journal of Range and Forage Science*. 34 (3), 173-177, DOI: 10.2989/10220119.2017.1387175.

2016

Barnier, F., Duncan, P., Fritz, H., Blanchard, P., **Rubenstein, D. I.**, & Pays, O. (2016). Between-gender differences in vigilance do not necessarily lead to differences in foraging-vigilance tradeoffs. *Oecologia*, 1-12.

Giuggioli, L., Potts, J.R., **Rubenstein, D.I.** and Levin, S.A., (2016). Stigmergy, collective actions, and animal social spacing (vol 110, pg 16904, 2013). *Proceedings of the National Academy of Sciences*, 113(6), pp.E812-E812.

Kahumbu, P., Martins, D., Schieltz, J. & **Rubenstein, D.I.** (2016) Transforming the next generation through citizen science in Kenya: the kids twiga tally. *Swara, April-June*, 52-56.

Kulahci, I. G., **Rubenstein, D. I.**, Bugnyar, T., Hoppitt, W. J. E., Mikus, N., & Schwab, C. (2016). Social networks predict selective observation and information spread in ravens. *Royal Society Open Science*. 3(7), 160256.

Lalampaa, P. K., Wasonga, O. V., **Rubenstein, D. I.**, & Njoka, J. T. (2016). Effects of holistic grazing management on milk production, weight gain, and visitation to grazing areas by livestock and wildlife in Laikipia County, Kenya. *Ecological Processes*, 5(1), 17.

Pappano, D. J., Bergman, T. J., Beehner, J. C., Berger-Wolf, T., & **Rubenstein, D. I.** (2016). Seasonal influences on gelada social networks. *American Journal of Physical Anthropology*. 159, 247-247.

Rubenstein, D.I. (2016). Anthropogenic Impacts on Behavior: The Pros and Cons of Plasticity. In "Conservation Behavior". Eds. Saltz, D. and O. Berger-tal. Pp. 121-131. Cambridge Univ. Press.

Rubenstein, D.I., Low Mackey, B., Davidson, ZD, Kebede, F. & King, S.R.B. (2016). Equus grevyi. The IUCN Red List of Threatened Species 2016: e.T7950A89624491.

Rubenstein, D.I., Cao, Q. and J. Chui. (2016). Equids and ecological niches: behavioral and life history variations on a common theme. In "Wild Equids: Ecology, Management, and Conservation", Eds. Ransom, J.R. & P. Kaczencky. Pp. 58-68. Johns Hopkins University Press.

Rubenstein, D. R., & **Rubenstein, D. I.** (2016). From Pleistocene to trophic rewilding: A wolf in sheep's clothing. *Proceedings of the National Academy of Sciences*, 201521757.

Schieltz, J. M., & **Rubenstein, D. I.** (2016). Evidence based review: positive versus negative effects of livestock grazing on wildlife. What do we really know?. *Environmental Research Letters*, 11(11), 113003.

Uyehara, I. K., Sisanya, M., Hemp, C., & **Rubenstein, D. I.** (2016). Effects of traditional pastoralism on grasshopper (Caelifera) assemblages in East Africa. *African Journal of Ecology*, 54(2), 167-173.

2015

Barale, C., Beehner, J. (2015) Juvenile social relationships reflect adult patterns of behavior in wild geladas. *American Journal of Primatology*. 77(10), 1086-1096.

Costelloe, B.R. and **Rubenstein, D.I.** (2015) Coping with transition: offspring risk and maternal behavioral changes at the end of the hiding phase. *Animal Behaviour* 109: 217-2

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