

**Noa M. Pinter-Wollman, PhD**  
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### **Education:**

- 2008      **Ph.D.** Animal Behavior. University of California, Davis  
*Dissertation title: The effects of translocation on the behavior of African elephants (Loxodonta africana)*
- 2004      **M.S.** Animal Behavior. University of California, Davis
- 2003      **B.Sc.** Biology in the program for outstanding students of the Life Sciences Faculty, *Summa Cum Laude*.  
Tel-Aviv University (TAU), Israel

### **Appointments:**

- 2016-present      Assistant Professor, Department of Ecology & Evolutionary Biology, UCLA
- 2012-2016      Assistant Research Scientist, BioCircuits Institute, University of California, San Diego
- 2011-2012      Lecturer and core course coordinator, Program in Human Biology, Stanford University
- 2010-2011      Postdoctoral Fellow, Department of Statistics, Stanford University
- 2008-2010      NSF Postdoctoral Fellow in Biological Informatics, Department of Biology, Stanford University

### **Grants and Fellowships:**

- 2016-2021      NIH NIGMS R01 #GM115509 “Modeling how keystone individuals emerge and influence disease transmission” (\$2,031,286)
- 2015-2019      NIH NIGMS R01 #GM113967 “Multiscale model of exploration-exploitation tradeoff: from genes to collectives” (Consortium PI, \$1,154,614)
- 2015-2018      NSF IOS-Behavioral Systems #1456010 “Collaborative Research: The effects of keystone individuals on collective behavior” (\$310,000)
- 2015-2016      NAKFI Collective Behavior grant “How do architectural designs affect collective behavior?” (\$100,000)
- 2012-2015      Investigator in the NIH P50 #GM085764 Center of Excellence Grant to the San Diego Center for Systems Biology (SDCSB)
- 2008-2010      NSF Postdoctoral Fellowship in Biological Informatics (\$123,000)
- 2007      International Elephant Foundation (\$9,780)
- 2005-06      Lincoln Park Zoo – Field Conservation Funds (\$5,810)

### **Scholarships and Awards:**

- 2011      Southwestern Research Station Award, American Museum of Natural History
- 2009      International Ethological Conference (IEC) student grant
- 2009      NSF travel grant through the Animal Behavior Society to participate in the IEC
- 2008      UC Davis Graduate Studies Travel Award
- 2003-07      Animal Behavior Graduate Group Block Grant (tuition and stipend, 6 quarters)
- 2005 & 2006      UC Davis Science and Humanities Research Award
- 2005      Scholarship for Graduate Summer Research, African Studies department
- 2005      Consortium for Women and Research – Graduate Research Award
- 2004 & 2007      UC Davis Graduate Student Association (GSA) Travel Award
- 2001-03      Tel-Aviv University, President’s List – full tuition scholarship for three years as part of the University’s program for excellent students (top 1% university wide)
- 2000-03      Tel-Aviv University, half tuition scholarship as a part of the program for outstanding students of the Life Sciences Division (top 3% in department)

## **Publications:**

*\* authors who conducted work as undergraduate or \*\*high school students*

37. Keiser C.N., **Pinter-Wollman N.**, \*Ziamba M.J., \*Kothamasu K.S., & Pruitt J.N. 2017. The index case is not enough: Variation among individuals, groups, and social networks determine bacterial transmission dynamics. Journal of Animal Ecology. *In press*
36. **Pinter-Wollman N.**, \*Mi B. & Pruitt J.N. 2017. Social stability influences the effect of keystone individuals on group performance. Behavioral ecology. 28(3): 883-889.
35. **Pinter-Wollman N.**, Fiore S.M. & Theraulaz G. 2017. Uncovering the impact of architecture on collective behavior. Nature Ecology and Evolution. 1:0111 DOI: 10.1038/s41559-017-0111
34. Pruitt J.N., Howell K.A., Gladney S.J., Yang Y., Lichtenstein J.L.L., Spicer M.E., Echeverri S.A., & **Pinter-Wollman N.** 2017. The behavioral hypervolume of predator groups and predator-predator interactions shape prey survival rates and selection on prey behavior. American Naturalist. 189(3):254-266.
33. Lichtenstein J.L., Wright C.M., Luscuskie L.P., Montgomery G.A., **Pinter-Wollman N.** & Pruitt J.N., 2017. Participation in cooperative prey capture and the benefits gained from it are associated with individual personality. Current Zoology. doi: 10.1093/cz/zow097
32. Pruitt J.N., Bolnick D.I., Sih A., DiRienzo N. & **Pinter-Wolman N.** 2016. Behavioral hypervolumes of spider communities predict community performance and disbandment. Proceedings of the Royal Society B. 283: 20161409.
31. Keiser C.N., Howell K.A., **Pinter-Wollman N.**, Pruitt J.N. 2016. Personality composition alters the transmission of cuticular bacteria in social groups. Biology Letters. 12: 20160297.
30. **Pinter-Wollman N.**, Keiser C.N., Wollman R., & Pruitt J.N. 2016. The effect of keystone individuals on collective outcomes can be mediated through interactions or behavioral persistence. The American Naturalist 188 (2).
29. Keiser C.N., **Pinter-Wollman N.**, Augustine D., Ziamba M., \*Hao L., Lawrence J., & Pruitt J.N. 2016. Individual differences in boldness influence patterns of social interactions and the transmission of cuticular bacteria among group-mates. Proceedings of the Royal Society B. 283: 20160457
28. Pruitt J.N., Wright C.M., Keiser C.N., DeMarco A., Grobis M.M., & **Pinter-Wollman N.** 2016. The Achilles heel hypothesis: misinformed keystone individuals impair collective learning and reduce group success. Proceedings of the Royal Society B. 283: 20152888.
27. **Pinter-Wollman N.** 2015. Nest architecture shapes the collective behavior of harvester ants. Biology Letters. 11:20150695.
26. \*Pless E., \*Queirolo J., **Pinter-Wollman N.**, \*Crow S., \*Allen K., & Gordon D.M. 2015. Interactions increase forager availability and activity in harvester ants. PLoS One. 10(11): e0141971.
25. Pruitt J.N. & **Pinter-Wollman N.** 2015. The legacy effects of keystone individuals on collective behavior scale to how long they remain within a group. Proceedings of the Royal Society B. 282:20151766.
24. **Pinter-Wollman N.** & Brown M.J.F. 2015. Variation in nest relocation of harvester ants is affected by population density and food abundance. Behavioral Ecology. 26(6): 1569–1576.
23. Greening B.R., **Pinter-Wollman N.**, & Fefferman N.H. 2015. Higher-order interactions: Understanding the knowledge capacity of social groups using simplicial sets. Current Zoology. 61(1):114 -127.
22. **Pinter-Wollman N.** 2015. Persistent variation in spatial behavior affects the structure and function of interaction networks. Current Zoology. 61(1):98-106.
21. Udiani O., **Pinter-Wollman N.**, & Kang Y. 2015. Identifying robustness in the regulation of collective foraging of ant colonies using an interaction-based model with backward bifurcation. Journal of Theoretical Biology. 367:61–75.
20. \*Hui A. & **Pinter-Wollman N.** 2014. Exploratory Argentine ant workers improve both the speed and accuracy of local invasion. Animal Behaviour. 93:261-266.
19. **Pinter-Wollman N.**, Hobson E.A., Smith J.E., Edelman A.J., Shizuka D., Waters J.S., de Silva S., Prager S.D. Sasaki T., Wittemyer G., Fewell J., & McDonald D.B. 2014. The dynamics of animal social networks: analytical, conceptual, and theoretical advances. Behavioral Ecology. 25(2):242-255.
18. Jandt J.M., Bengston S., **Pinter-Wolman N.**, Pruitt J., Raine N.E., Dornhaus A. & Sih A. 2014. Behavioral syndromes and social insects: personality at multiple levels. Biological Reviews. 89(1):48-67.

17. **Pinter-Wollman N.**, \*\*Bala A., \*Queirolo J., Merrel A., Holmes S. & Gordon D.M. 2013. Harvester ants use interactions to regulate forager activation and availability. Animal Behaviour. 86:197-207.
16. Flanagan T., **Pinter-Wollman N.**, Moses M., & Gordon D.M. 2013. Fast and flexible: Argentine ants recruit from nearby trails. PLoS One. 8(8): e70888
15. Gordon D.M., \*Dektar K., & **Pinter-Wollman N.** 2013. Harvester ant colony variation in foraging activity and response to humidity. PLoS One. 8(5): e63363.
14. Greene, M. J., **Pinter-Wollman N.**, & Gordon D.M. 2012. Combined chemical cues inform harvester ant foragers' decisions to leave the nest in search of food. PLoS One. 8(1): e52219
13. **Pinter-Wollman N.**, \*Hubler J., \*Holley J.A., Franks N.R. & Dornhaus A. 2012. How is activity distributed among and within tasks in *Temnothorax* ants? Behavioural Ecology, Sociobiology. 66:1407-1420
12. **Pinter-Wollman N.** Gordon D.M. & Holmes S. 2012. Nest site and weather affect the 'personality' of harvester ant colonies. Behavioral Ecology. 23:1022-1027
11. **Pinter-Wollman N.** 2012. Human–elephant conflict in Africa: the legal and political viability of translocations, wildlife corridors, and transfrontier parks for large mammal conservation. Journal of International Wildlife Law and Policy. 15(2):152-166
10. **Pinter-Wollman N.** 2012. Personality in social insects: how does worker personality determine colony personality? Current Zoology. 58(4): 579-587
9. **Pinter-Wollman N.**, Wollman R., Guetz A., Holmes S., & Gordon D.M. 2011. The effect of individual variation on the structure and function of interaction networks in harvester ants. Journal of the Royal Society, Interface. 8: 1562-1573. **Media coverage: "Ants take a cue from Facebook" Science Now, April 12th, 2011**
8. **Pinter-Wollman N.** 2009. Spatial behavior of translocated African elephants (*Loxodonta africana*) in a novel environment: using behavior to inform conservation actions. Behaviour. 146:1171-1192
7. **Pinter-Wollman N.**, Isbell L., & Hart L. 2009. Assessing translocation outcome: Comparing behavioral and physiological aspects of translocated and resident African elephants (*Loxodonta africana*). Biological Conservation. 142:1116-1124
6. **Pinter-Wollman N.**, Isbell L., & Hart L. 2009. The relationship between social behavior and habitat familiarity in African elephants (*Loxodonta africana*). Proceedings of the Royal Society B. 276:1009-1014. **Media coverage: "Elephant Enclaves" Interview on the CBC program Quirks & Quarks, January 3rd 2009**
5. Hart B. L., Hart L. A., & **Pinter-Wollman N.** 2008. Large brains and cognitive behavior: Where do elephants fit in? Neuroscience & Biobehavioral Reviews. 32:86-98
4. Carey J. R., **Pinter-Wollman N.**, Wyman M., Muller H., Molleman F., & Zhang N. 2007. A search for principles of disability using experimental impairment of *Drosophila melanogaster*. Experimental Gerontology. 42:166-172
3. \***Pinter-Wollman N.**, Dayan T., Eilam D., & Kronfeld-Schor N. 2006 Can aggression be the force driving temporal separation between competing common and golden spiny mice? Journal of Mammalogy. 87(1):48-53
2. Gordon D.M., \*Chu J., \*Lillie A., \*Tissot M., & \*\***Pinter N.** 2005. Variation in the transition from inside to outside work in the red harvester ant *Pogonomyrmex barbatus*. Insectes Sociaux. 52:212-217
1. Innocenti G., \*\***Pinter N.**, & Galil B.S. 2003. Observations on the agonistic behavior of the swimming crab *Charybdis longicollis* Leene, infected by the rhizocephalan barnacle *Heterosaccus dollfusi* Boschma. Journal of Canadian Zoology. 81:173-176

### **Invited Contributions:**

- Pinter-Wollman N.** 2015. Editorial: An introduction to the special column on animal social networks Current Zoology. 61(1):42-44.
- Pinter-Wollman N.** & Mabry K. 2010. Remote-sensing of behavior. In: Encyclopedia of Animal Behavior. Eds. Breed M. and Moore J. Vol 3. pp:33-40. Academic Press, Oxford.
- Mabry K. & **Pinter-Wollman N.** 2010. Spatial orientation and time: Methods. In: Encyclopedia of Animal Behavior. Eds. Breed M. and Moore J. Vol 3. pp:308-314. Academic Press, Oxford.
- Pinter-Wollman N.** 2009. Book Review: Exploring Animal Social Networks. By Darren P. Croft, Richard James, and Jens Krause. The Quarterly Review of Biology. 84: 99-100.

## **Teaching experience:**

- 2017 Designed and taught 'Advanced Statistics in Ecology and Evolutionary Biology' (EEB C202), UCLA.
- 2017 Taught in the animal behavior core course for graduate students (EEB 200C), UCLA.
- 2016 Guest lecturer at the EEB graduate student grant writing course (EEB 250), UCLA. Prof: Peter Nonacs
- 2016-17 Design of the biological science undergraduate core course in ecology, evolution and genetics (LS7B) at UCLA converting it into a 'flipped' classroom that fosters active learning. Recorded a series of lectures on introduction to evolution.
- 2016 Co-instructor in the EEB R-bootcamp (EEB 201), UCLA.
- 2016 Instigated, organized, and facilitated a professional development seminar series on academic careers in systems biology for postdocs and advanced graduate students, UCSD.
- 2016 Guest Lecturer for 'Network Theorizing: From Molecules to Societies' (Cog Sci 200) UCSD. Bill Bechtel
- 2014,16 Guest Lecturer for Introduction to Quantitative Biology (BIMM 194), UCSD. Course professor: Jeff Hasty
- 2012 Designed and taught a weekly seminar on science education for senior undergraduates at the Program of Human Biology, Stanford University (HumBio 5E – Science Education in Human Biology).
- 2011 Lecturer and core course coordinator, Program in Human Biology, Stanford University.
- 2011 Teaching assistant in the summer program Vertical Integration of Mathematics, Statistics and Applied Mathematics, Stanford University. Program advisor: Dr. Susan Holmes.
- 2011 Guest Lecturer for Behavioral Ecology, Stanford University. Course professor: Dr. Deborah Gordon.
- 2008 Teaching Assistant (TA) for Introductory Biology (BIS2B - Ecology and Evolution), UC Davis, Department of Evolution and Ecology (EVE).
- 2008 Teaching Assistant for Introductory Biology (BIS1B - Animal Diversity/Evolution), UC Davis, EVE.
- 2008 Guest Lecturer for Behavioral Ecology, UC Davis, Wildlife, Fish and Conservation Biology Department.
- 2005-08 Co-founder, Organizer, and Facilitator of the Society for Conservation Biology Undergraduate Conservation Biology Seminar Series, UC Davis, EVE.
- In this seminar series graduate students present their conservation biology research to undergraduates, exposing them to ongoing scientific research and future possible career paths.*
- 2007 Guest Lecturer and Teaching Assistant for Mechanisms of Animal Behavior (NPB102), UC Davis, Department of Neurobiology, Physiology, and Behavior (NPB). Course professor: Dr. Gabrielle Nevitt.
- 2007 Guest Lecturer and Teaching Assistant for Biology for Non-biology Majors (BIS10), UC Davis, NPB. Course professor: Dr. Allen (Jerry) Marr.
- 2005 Guest Lecturer for the Animal Behavior Graduate Group (ABGG) core course, UC Davis.
- 2004 Teaching Assistant, three quarters for Introductory Biology (BIS1B - Animal Diversity/Evolution), UC Davis, EVE.

## **Service:**

- 2017-20 Editor for the journal Biology Letters, a publication of the Royal Society (board member)
- 2017-20 Editor for the journal Behavioral Ecology (editorial board)
- 2017-18 Guest editor for the Philosophical Transactions of the Royal Society B, special issue on architecture and collective behavior.
- 2017-18 Seminar series organizing committee, EEB, UCLA
- 2017 Moderator and organizing committee, ABS Conservation Behavior Workshop, Toronto, Canada
- 2016 - 17 EEB departmental liaison to the QCBio program at UCLA
- 2016 Organized and ran a workshop on the effects of architecture on collective behavior, Phoenix, AZ

2016 Ad-hoc reviewer for NSF IOS Behavioral Systems

2014-16 Elected committee member, Animal Behavior Society Conservation Committee

2015 Moderator and organizing committee, ABS Conservation Behavior Workshop, Anchorage, AK

2014-15 Outreach activities coordinator for the San Diego Center for Systems Biology (SDCSB)

2014 Co-organizer of a session 'Social Insects as Complex Systems' at the 7th International Symposium on Biomathematics and Ecology: Education and Research (BEER-2014), Claremont, CA

2014 Guest Editor for 'Current Zoology', special issue on Animal Social Networks

2014 Panelist on an NSF IOS review panel

2014 Organizer of the BCI seminar series

2013 Co-facilitator and Advertising committee of the ABS Conservation Biology Workshop, Boulder, CO

2011 Instigator and organizer of the animal behavior journal club at Stanford University

2010 Organizer, Animal Collective Behavior: Decision Making of Groups Symposium at the national meeting of the Animal Behavior Society at Williamsburg, VA

2009 Postdoctoral panelist on an NSF DEB grant review panel

2009 Judge at the IEC student poster competition, Rennes, France

2009 Organizer, 11<sup>th</sup> Bay Area Conservation Biology Symposium, Stanford University

2008 Organizer, 10<sup>th</sup> Bay Area Conservation Biology Symposium, UC Davis

2007-2008 Student Graduate Advisor in the Animal Behavior Graduate Group, UC Davis

2005-2008 Head of seminar committee, Society for Conservation Biology, Davis chapter

2007 Organizer, 3<sup>rd</sup> Animal Behavior Graduate Group Research Conference, UC Davis

2006 Admissions sub-committee in the Animal Behavior Graduate Group, UC Davis

2004-2005 Vice president of the Society for Conservation Biology, Davis chapter

2004 Organizer, 6<sup>th</sup> Bay Area Conservation Biology Symposium, UC Davis

**Reviewed for:**

Granting agencies: NSF Behavioral Systems Cluster, NSF Division of Environmental Biology, ABS student grants, ISF (Israel Science Foundation), DFG (Deutsche Forschungsgemeinschaft).

Journals: Acta Biotheoretica, Animal Behaviour, Animal Conservation, Behavioral Ecology, Behaviour, Behavioural Ecology Sociobiology, Behavioural Processes, Biology Letters, Current Opinion in Insect Science, Current Zoology, Ecography, Ecology, Ecology and Evolution, Ecology Letters, European J. of Wildlife Research, Insect Science, Insectes Sociaux, Integrative and Comparative Biology, Integrative Zoology, Italian J. of Zoology, J. of Comparative Psychology, J. of the Royal Society Interface, J. of Theoretical Biology, J. of Wildlife Management, Nature Communications, PNAS, Proceedings of the Royal Society B, Physical Review E, Scientific Reports, The Science of Nature (Naturwissenschaften), Zoo Biology.

**Outreach:**

2017 Grand award judge at the Intel International Science and Engineering Fair (ISEF), Animal Sciences category, Los Angeles, CA

2017 Lessons on ant biology teaching experimental design and basic natural history to five 2<sup>nd</sup>-3<sup>rd</sup> grade classrooms at the Lab School, UCLA.

2016 Presented a lesson on ant behavior to pre-school children at the Early Care Education center at UCLA.

2016 Developed and taught a lesson plan on ant biology at the Montessori School of La Jolla (pre-school).

2015-16 Participated in Reuben H. Fleet Science Center's Spotlight on San Diego Science series to develop new NGSS aligned activities with K-12 teachers.

2015 Saturday Science Club for Girls and Women Scientist Action Summer Camp at the San Diego Reuben H. Fleet Science Center.

2014-17 Coordinator of SDCSB's public outreach activities

2014 Outreach activities at the San Diego Reuben H. Fleet Science Center:  
 Senior Monday (lay audience lecture to seniors); Saturday Science Club for Girls; and Women Scientist Action Summer Camp (both promoting science education of middle school girls)

- 2013 Developed lesson plan and taught 6<sup>th</sup> grade students as part of the BioCircuits Elementary School Science Partnership at Ocean Knoll Elementary School
- 2011-12 Docent at Año Nuevo State Park - guided interpretative tours to the elephant seal breeding colony.
- 2010 Presented postdoctoral research at the scientific training class of high school and undergraduate interns at the Jasper Ridge Biological Preserve, Stanford, CA
- 2010 Presented PhD research at Presentation High School science colloquium, San Jose, CA
- 2009 Interview on the CBC program Quirks & Quarks, program title: "Elephant Enclaves"
- 2009 Volunteered to give "advice from the underground" at the Ant Night Life event at the California Academy of Science (CAS) organized by Brian Fisher and artist and poet Genine Lentine  
*During this special event at the CAS we provided visitors with advice on personal challenges from an ant's point of view, based on their 100 million years of problem-solving.*
- 2009-11 Mentored two graduate students as part of the Association for Women in Science (AWIS) Palo Alto chapter mentoring program
- 2006 Presented PhD research at the science club of Flintridge Prep high school, Pasadena, CA
- 2004 Instructed in an outreach program: WIDSI, Watch It Don't Squash It, run by the Animal Behavior Graduate Group  
*A community outreach afternoon program for low-income students at the Harmon Johnson Elementary School in Sacramento teaching concepts in animal behavior.*

### **Invited Presentations:**

- 2018 Spatial constraints on social behavior  
 Marschak Interdisciplinary Colloquium on Mathematics in the Behavioral Sciences, UCLA
- 2017 The effects of spatial constraints on social interactions and collective behavior  
 Keynote speaker, Emergent properties of individual behavior workshop, University of Kentucky
- 2016 Dynamic animal social networks  
 Center for Adaptive Network Dynamics, California NanoSystems Institute, UCSB
- 2016 The effects of architecture on collective behavior  
 Leonardo Art Science Evening Rendezvous (LASER), UCLA
- 2016 How can we resolve spatial constraints and higher order interactions in social networks?  
 Multilayer Networks Conference, UC Davis
- 2017 Individual variation in collective behavior  
 Biology Department, University of Kentucky  
 7th Annual UCI Systems Biology Regional Conference, UCI
- 2016 Center for Behavior Evolution and Culture, UCLA  
 Department of Entomology, Pennsylvania State University  
 Ecology, Behavior and Evolution Section, UCSD  
 Department of Ecology & Evolutionary Biology, UCLA
- 2015 Biology department, California State University, Long Beach  
 Institute for Quantitative and Computational Biosciences, UCLA
- 2014 Biology Colloquium, Harvey Mudd College, Claremont CA  
 Entomology Colloquium, University of Illinois, Urbana-Champaign  
 BioCircuits Institute Seminar Series, UC San Diego
- 2014 The Interactions that regulate collective behavior  
 Workshop on Animal Social Networks, NIMBioS, Knoxville TN
- 2013 From ants to colonies: individual variation in collective behavior  
 Clore Center for Biological Physics, Weizmann Institute of Science, Israel  
 Biology seminar series, San Diego State University
- 2012 Foraging regulation at two time scales  
 Social Insect Research Group, Arizona State University
- 2012 From ants to colonies: individual variation in collective behavior

- Behavior, Evolution, and Culture seminar series, UCLA  
 Symposium on Networks in Biological, Social, and Geographic Systems, University of Wyoming  
 Seminar at the EBE section, Biology department, UC San Diego  
 Biology Department Colloquium, San Francisco State University
- 2011 Animal Behavior Graduate Group Seminar Series, UC Davis  
 Program in Interdisciplinary Biological and Biomedical Sciences (PIBBS) seminar, UNM  
 Eco-evo lunch, Biology Department, Stanford University
- 2010 Human-elephant conflict: bringing together science and wildlife management  
 Presentation High School science colloquium, San Jose, CA
- 2009 The effects of translocation on African elephants – using behavioral studies to inform conservation:  
 The Society for Conservation Biology, Central California Coast Chapter
- 2008 Stranger in a strange land: Spatial and social behavior of African elephants in a novel environment  
 Eco-evo lunch, Biology Department, Stanford University  
 Department of Zoology seminar, Tel-Aviv University, Israel  
 Animal Behavior Graduate Group Seminar Series, UC Davis
- 2007 The effects of translocation on African elephants  
 SCB/EVE Undergraduate Conservation Biology Seminar Series, UC Davis  
 Geography Graduate Group Wildlife Conservation, Law and Policy seminar series, UC Davis
- 2006 Science club and 12 grade anatomy class in Flintridge Prep high school, Pasadena, CA  
 Africa and African diaspora brown bag, UC Davis

### **Presentations at Conferences and Symposia:**

**Pinter-Wollman N.**, 2017. Multilayer networks can advance the study of animal social behavior. *54<sup>th</sup> Annual meeting of the Animal Behavior Society*, Toronto, Canada. **Talk.**

**Pinter-Wollman N.**, Keiser C.N., Wollman R. & Pruitt J.N., 2016. Uncovering the effects of keystone individuals on collective behavior. *International Society for Behavioral Ecology*, Exeter, UK. **Poster.**

**Pinter-Wollman N.** 2015. Nest architecture shapes the collective behavior of harvester ants. *52<sup>nd</sup> Annual meeting of the Animal Behavior Society*. Anchorage, AK. **Talk.**

**Pinter-Wollman N.** 2014. Persistent behavioral variation affects the structure and function of interaction networks. *7<sup>th</sup> International Symposium on Biomathematics and Ecology: Education and Research (BEER)*. Claremont, CA. **Talk.**

**Pinter-Wollman N.** 2014. Effects of nest architecture on collective behavior of ant colonies. *17<sup>th</sup> Congress of the International Union for the Study of Social Insects*. Cairns, Australia. **Talk.**

**Pinter-Wollman N.** 2013. Harvester ants use interactions to regulate forager activation and availability. *50<sup>th</sup> Annual meeting of the Animal Behavior Society*, Boulder, CO. **Talk.**

Hobson E.A., **Pinter-Wollman N.**, Smith J.E., Edelman A.J., Shizuka D., Waters J.S., de Silva S., Prager S.D. Sasaki T., Wittemyer G., Fewell J., & McDonald D.B. 2013. The dynamics of animal social networks: analytical, conceptual, and theoretical advances. *50<sup>th</sup> Annual meeting of the Animal Behavior Society*, Boulder, CO. **Poster.**

**Pinter-Wollman N.** 2012. Nest site and weather affect the personality of harvester ant colonies. *49<sup>th</sup> Annual meeting of the Animal Behavior Society*, Albuquerque, NM. **Talk.**

**Pinter-Wollman N.** 2011. Individual variation in the interaction networks of harvester ants. *Behavior: joint meeting of the International Ethological Conference and the Animal Behavior Society*, Bloomington, IN. **Talk.**

**Pinter-Wollman N.** 2010. Effects of interaction network structure on information flow in social insects. *16<sup>th</sup> Congress of the International Union for the Study of Social Insects*. Copenhagen, Denmark. **Talk.**

**Pinter-Wollman N.** 2010. Collective animal behavior. *47<sup>th</sup> Annual meeting of the Animal Behavior Society*, Williamsburg, VA. **Talk.**

**Pinter-Wollman N.** and Gordon D.M. 2009. Effects of interaction network structure on task allocation in social insects. *31<sup>st</sup> International Ethological Conference*, Rennes, France. **Poster.**

- Pinter-Wollman N.** 2008. The relationship between social behavior and habitat familiarity in African elephants. *45<sup>th</sup> Annual meeting of the Animal Behavior Society*, Snowbird, UT. **Talk.**
- Pinter-Wollman N.** 2007. Exploration of a novel environment by translocated African elephants. *44<sup>th</sup> Annual meeting of the Animal Behavior Society*, Burlington, VT. **Talk.**
- Pinter-Wollman N.** 2007. Home range acquisition in translocated African elephants. *3<sup>rd</sup> Animal Behavior Graduate Group Research Conference*. Davis, CA. **Talk.**
- Pinter-Wollman N.** 2007. The effects of translocation on African elephants. *9<sup>th</sup> Bay Area Conservation Biology Symposium*, Berkeley, CA. **Talk.**
- Pinter-Wollman N.**, Dayan T., Kronfeld-Schor N. and Eilam D. 2004. Does aggression drive temporal separation between competing common and golden spiny mice? *41<sup>st</sup> Annual meeting of the Animal Behavior Society*, Oaxaca, Mexico. **Talk.**
- Pinter N.** Innocenti G. & Galil B.S. 2002. Observations on the agonistic behavior of the swimming crab *Charybdis longicollis* Leene, infected by the rhizocephalan barnacle *Heterosaccus dollfusii* Boschma. *14<sup>th</sup> Israeli Mediterranean-coast Symposium*, Haifa University, Israel. **Talk.**
- Pinter N.**, Dayan T., Eilam D. & Kronfeld-Schor N. 2001. Aggressive interactions between two species of spiny mice: *Acomys russatus* and *Acomys cahirinus*. *38<sup>th</sup> meeting of the Zoological Society of Israel*, Haifa University, Israel. Abstract in the *Israel Journal of Zoology*, 2002 48 (2):176. **Talk.**