



NILS CORDES

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EDUCATION

PhD, Evolutionary Biology. University of Bielefeld. 2010–2013. Dr. Klaus Reinhold, advisor.
Thesis: Sexual Selection and the Causes of Behavioural Differences.

Master of Science, Entomology. University of Illinois. 2008–2010. Dr. Leellen F. Solter, advisor. Thesis: The Role of Pathogens in the Decline of North American Bumble Bees with a Focus on the Microsporidium *Nosema bombi*.

Master of Science, Biology. Ruhr-University Bochum, Germany. 2007. Dr. Wolfgang H. Kirchner, advisor. Thesis: Learning Behavior of the Termite *Macrotermes natalensis*.

EMPLOYMENT & WORK EXPERIENCE

Lecturer, Bielefeld University, Faculty of Biology. August 2013–present. As part of the Federal Teaching Quality Pact program “richtig einsteigen” I teach writing and scientific communication to Bachelor students.

Research Fellow, Bielefeld University, Dr. Klaus Reinhold. May 2010–May 2013. I studied the evolution of behavioral variance in wax moths and was in charge of maintenance and presentation of the website for the Department of Evolutionary Biology.

Research Assistance, University of Illinois, Dr. Leellen F. Solter. January 2008–April 2010. I studied the pathology of bumble bees and the role of microsporidia in bumble bee decline as part of a nationwide project.

Teaching Assistance, Ruhr-University Bochum, Germany, Dr. Wolfgang H. Kirchner. April 2007–July 2007. Course: Insect Behavior and Sociology – Field research on learning behavior of honey bees.

Teaching Assistance, Ruhr-University Bochum, Germany. May 2006–July 2006. Supervision of zoological/entomological excursions for undergraduate students.

Independent Field Research, South Africa. January 2006–May 2006. I studied the learning behavior of the termite *Macrotermes natalensis*.

Independent Field Research, Ruhr-University Bochum, Germany, Dr. Wolfgang H. Kirchner. July 2004–August 2004. I studied odor perception and odor preference of laboratory-reared bumble bees.

Independent Field Research, Research Station of the *Philippine Endemic Species Conservation Project* on Panay, Philippines, Dr. Eberhard Curio. November 2003–April 2004. Research on invertebrate behavior and ecology.

PUBLIC SERVICE

Online blogging at scienceblogs.de/evolvimus. Infrequently, 2010–today

Radio Interview on Animal Personalities, WDR 5 *Leonardo*. March 29, 2011.

Media Interview on Prehistoric Insects, WILL-AM Radio and *The News Gazette*, Champaign, IL. February 25, 2010.

UIUC Linnaean Games Team, National Annual Meeting of the Entomological Society of America. Indianapolis, IN, December 12–15, 2009. Member.

Society of Invertebrate Pathology Student Representative, Microsporidia Division. 2009–2010.

Entomology Graduate Student Association, Secretary. 2009–2010.

School presentation: *The many insects of Illinois*. Montessori School of Champaign-Urbana, Savoy, IL. June 2009.

National Pollinator Week in Champaign-Urbana. June 22–28, 2009. Organizer.

UIUC Linnaean Games Team, North Central Branch Meeting of the Entomological Society of America. St. Louis, MO, March 15–18, 2009. Member.

School presentation: *Insects from the US and the World*. Middletown Early Childhood Center, Mahomet, IL. November 2008.

Insect Fear Film Festival at Foellinger Auditorium, University of Illinois at Urbana-Champaign. 2008–2010. Volunteer/Organizer.

National Pollinator Week in Champaign-Urbana. June 22–28, 2008. Volunteer.

Media Interview on Social Insects, WILL-AM Radio and *The News Gazette*, Champaign, IL. February 17, 2008.

HONORS & GRANTS

National Champion Team, Linnaean Games, National Annual Meeting of the Entomological Society of America. Indianapolis, IN. December 2009.

Finalist, Stinger Award, National Annual Meeting of the Entomological Society of America. Indianapolis, IN. December 2009.
Francis M. and Harlie M. Clark Research Support Grant, University of Illinois at Urbana-Champaign, 2009.
Microsporidia Division Student Travel Award, Society of Invertebrate Pathology, 2009.
First Place Team, Linnaean Games, North Central Branch Meeting, Entomological Society of America, St. Louis, MO. March 2009
German Academic Exchange Service (DAAD) Research Support Grant, DAAD, 2006.

PRESENTATIONS & TALKS

Cordes, N. 2015. Mit der Frage beginnen: Motivieren durch Verständnis. LehrBar Bielefeld University, February 26.
Cordes, N. & Riewerts, K. 2014. *The Question Comes First: Can Teaching Scientific Writing Help Students Become Better Scientists?* Poster, Teaching is Touching the Future – Academic Teaching Within and Across Disciplines. Bremen, Germany, September 25-26.
Albrecht, F., Schmoll, T., Engqvist, L., Cordes, N. 2013. *You mate how you ate: Larval food quality predicts reproductive behaviour in a lekking moth.* Poster, 8th topical meeting of the Ethological Society: “Integrative Approaches to Life Histories.” Bielefeld, Germany, February 14–16.
Cordes, N. & Reinhold, K. 2012. *Consistent differences in behaviour and behavioural plasticity in an acoustic moth.* Invited Talk, Department of Behavioural Biology, Westfälische Wilhelms-Universität Münster, November 19.
Cordes, N, Schmoll, T. and Reinhold, T. 2012. *Daredevils: Sexual signaling and risk-taking in an acoustic moth.* Poster, 14th International Behavioral Ecology Congress. Lund, Sweden, August 12–17.
Cordes, N. & Reinhold, K. 2012. *What influences risk-taking behaviour in wax moths?* Poster, 7th topical meeting of the Ethological Society: “New Perspectives in Behavioural Development.” Münster, Germany, February 23–25.
Cordes, N. & Günther, A. 2011. *Behavioural Consistency: Terminology and Concepts.* Reduction of Phenotypic Plasticity in Behavior Workshop. Wettringen, Germany, October 17–19.
Cordes, N. & Reinhold, K. 2011. *On the origin of individual behavioural differences of wax moth males.* Poster, 104th Annual Meeting of the German Zoological Society (DZG). Saarbrücken, Germany, September 9–12.
Solter, L. & Cordes, N. 2011. *Bumble bee decline: Are pathogens involved?* Invited Talk, University of São Paulo, ESALQ-USP, Piracicaba, Brazil, February 16.
Cordes, N. 2010. *The lesser wax moth, Achroia grisella: Can an insect have a personality?* Reduction of Phenotypic Plasticity in Behavior Workshop. Gülpe, Germany, November 11–13.

- Solter, L., Cordes, N., and Huang, W-F. 2010. *What do surveys tell us about pathogen invasion in bumble bees?* IUCN North American Bumble Bee Species Conservation Strategy Workshop. St. Louis, MO, November 9–12.
- Cordes, N. & Solter, L. 2010. *Distribution and variation of Nosema bombi in North American bumble bees.* Society of Invertebrate Pathology, Annual Meeting. July 11–15.
- Cordes, N., Solter, L., Cameron, S., Lozier, J., Strange, J. and Griswold, T. 2009. *Are microsporidia involved in bumble bee decline?* Invited Talk, Society of Invertebrate Pathology, Annual Meeting. August 16–20.
- Strange, J., Cordes, N., Solter, L., Griswold, T. and Cameron, S. 2009. *The prevalence, distribution and hosts of Crithidia bombi in wild bumble bee populations.* Invited Talk, Society of Invertebrate Pathology, Annual Meeting. August 16–20.
- Strange, J.P., Cordes, N., Koch, J.B., Lozier, J.D., Griswold, T.L., Solter, L.F. and Cameron, S.A. 2008. *Current status and potential causes of population decline in wild bumble bee pollinators.* Poster, Annual Meeting of the Entomological Society of America. Reno, NV, November 16–19.
- Cordes, N. 2008. *Bumble bees as pollinators.* National Pollinator Week Press Conference, Urbana, IL. June 23.

PUBLICATIONS

- Cordes, N.** 2017. Versuchsprotokolle in der Lehre. *Deutsche Universitätszeitung*. 4/2017: 81-83
- Böhner, M., **Cordes, N.**, Hedermann, D., Hildebrand, T., Kaduk, S., Lahm, S., et al. 2016. „richtig einsteigen“ mit literalen Kompetenzen an der Universität Bielefeld. In: *Akademisches Schreiben. Vom Qualitätspakt Lehre 1 geförderte Schreibprojekte*. Knorr, D. (Ed.). Universitätskolleg-Schriften Bd. 13, Universität Hamburg
- Koch, J.B., Lozier, J., Strange, J.P., Ikerd, H., Griswold, T., **Cordes, N.**, Solter, L., Stewart, I. & Cameron, S.A. 2015. *USBombus*, a database of contemporary survey data for North American Bumble Bees (Hymenoptera, Apidae, *Bombus*) distributed in the United States. *Biodiversity Data Journal* 3: e6833.
- Cordes, N.** & Riewerts, K. 2015. The Question Comes First – Can Teaching Scientific Writing Help Students Become Better Scientists? In: *Teaching is Touching the Future – Academic Teaching Within and Across Disciplines*, Schelhowe, H., Schaumburg, M. & Jasper J. (Eds.). UVW UniversitätsVerlagWebler.
- Engqvist, L., **Cordes, N.**, Reinhold, K. 2015. Evolution of risk-taking during conspicuous mating displays. *Evolution* 69(2):395-406.
- Cordes, N.**, Albrecht, F., Engqvist, L., Schmoll, T., Baier, M., Müller, C., Reinhold, K. 2015. Larval food composition affects courtship song and sperm expenditure in a lekking moth. *Ecological Entomology* 40 (1):34-41.

- Engqvist, L., **Cordes, N.**, Schwenniger, J., Bakhtina, S., Schmoll, T. 2014. Female remating behaviour in a lekking moth. *Ethology* 120(7): 662-671.
- Cordes, N.**, Engqvist, L., Schmoll, T., Reinhold, K. 2014. Sexual signaling under predation: attractive moths take the greater risks. *Behavioral Ecology* 25 (2): 409-414.
- Cordes, N.**, Yiğit, A., Engqvist, L., Schmoll, T. 2013. Differential sperm expenditure reveals a possible role for post-copulatory sexual selection in a lekking moth. *Ecology and Evolution* 3 (3): 503-511.
- Cordes, N.**, Schmoll, T., Reinhold, K. 2013. Risk-taking behavior in the lesser wax moth: disentangling within- and between-individual variation. *Behavioral Ecology and Sociobiology* 67 (2): 257-264.
- Cordes, N.**, Huang, W.-F., Strange, J.P., Cameron, S.A., Griswold, T.L., Lozier, J.D., Solter, L.F. 2012. Interspecific geographic distribution and variation of the pathogens *Nosema bombi* and *Crithidia* species in United States bumble bee populations. *Journal of Invertebrate Pathology* 109 (2): 209-216.
- Cameron, S.A., Lozier, J.D., Strange, J.P., Koch, J.B., **Cordes, N.**, Solter, L.F., Griswold, T.L. 2011. Patterns of widespread decline in North American bumble bees. *Proceedings of the National Academy of Sciences* 108 (2): 662-667.

BOOKS

- Cordes, N. 2016. *Schreiben im Biologiestudium*. Verlag Barbara Budrich/utb.
- Berenbaum, M. (Ed.), Cordes, N. (Ill.). 2010. *Honey, I'm Homemade: Sweet Treats from the Beehive across the Centuries and around the World*. University of Illinois Press.