

CURRICULUM VITAE

Else J. Fjerdingstad, Ph.D.

Assistant Professor in Biology

Queens College, CUNY

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EDUCATION:

- 1994-1996 Ph.D., advisor: J.J. Boomsma, Inst. Ecology and Genetics, Aarhus Univ., Denmark.
 1992-1994 MS., advisor: J.J. Boomsma, Inst. Ecology and Genetics, Aarhus Univ., Denmark.

PROFESSIONAL EXPERIENCE:

- 2007 - pt. Assistant Professor, Department of Biology, Queens College, CUNY.
 2007 - pt. Appointed to the Doctoral Faculty in Biology, EEB subprogram, the Graduate Center, CUNY.
 2002-2006 Postdoctoral researcher, Lab. Ecology, Univ. Pierre and Marie Curie, Paris, France.
 1999-2001 Postdoctoral researcher, Dept. Evolution, Univ. LaTrobe, Melbourne VIC, Australia, and School Tropical Biology, James Cook Univ., Townsville QLD, Australia.
 1997-1999 Postdoctoral researcher, Inst. Ecology and Evolution, Univ. Lausanne, Switzerland.
 1993-1996 Teaching assistant, Inst. Ecology and Genetics, Aarhus Univ., Denmark.
 Seminar courses: Evolution of species; Evolution of sex, Life history ecology, Conservation biology; Population genetics for 3rd - 4th year students, total: 210 hs
 Theoretical exercises: population ecology and genetics for 2nd year students, total: 210 hs

Honors, awards, and scholarships:

- 2002 Augustinus Foundation, Denmark (\$1,000).
 2002 Organizing Committee, Internatl. Union for the Study of Social Insects, Sapporo, Japan (\$900).
 1998 450th Anniversary Foundation of Lausanne Univ, Switzerland (\$1,000).
 1197-1999 Carlsberg Foundation, Denmark, postdoctoral grant, 1997 – 1999 (\$100,000).
 1994-1996 Danish Natural Sciences Research Council, Ph.D. thesis scholarship (\$80,000).
 1994-1995 Danish Research Academy (\$1,600).
 1992-1994 Faculty of Natural Sciences, Aarhus Univ., Denmark: Master's thesis scholarship.
 1992 Knud Hoejgaard Foundation (\$800).
 1992 Bankmanager Jensen's Foundation for Young Researchers, Aarhus University (\$900).
 1991 European Network for Student Exchange ERASMUS, Barcelona, Spain, 7 months.

PUBLICATIONS:

- Fjerdingstad, E.J.**, N. Schtickzelle, P. Manhes, A. Gutierrez, and J. Clobert. 2007. Evolution of dispersal and life history strategies – *Tetrahymena* ciliates. BMC Evolutionary Biology. 7:133 doi:10.1186/1471-2148-7.
Fjerdingstad, E.J., and R.H. Crozier. 2006. The evolution of worker caste diversity in social insects. American Naturalist 167 : 390-400.
Fjerdingstad, E.J. 2005. Control of body size of *Lasius niger* ant sexuals – worker interests, genes and environment. Molecular Ecology 14: 3123-3132.
Fjerdingstad, E.J., and L. Keller. 2004. Relationships between phenotype, mating behaviour, and fitness of queens in the ant *Lasius niger*. Evolution 58: 1056-1063.
Fjerdingstad, E.J. 2004. Multiple-paternity and colony homeostasis in *Lasius niger* ants. Behavioral Ecology and

Sociobiology 56:50-58.

- Fjeringstad, E.J.**, P.J. Gertsch, and L. Keller. 2003. The relationship between multiple mating by queens, within-colony genetic variability and fitness in the ant *Lasius niger*. *Journal of Evolutionary Biology* 16:844-853.
- Fjeringstad, E.J.**, P.J. Gertsch, and L. Keller. 2002. Why do some social insect queens mate with several males? – testing the sex ratio manipulation hypothesis in *Lasius niger*. *Evolution* 56:553-562.
- Crozier, R.H., and **E.J. Fjeringstad**. 2001. Polyandry in eusocial Hymenoptera – disunity in diversity? *Annales Zoologici Fennici* 38:267-285.
- Fjeringstad, E.J.**, and J.J. Boomsma. 2000. Queen mating frequency and relatedness in young colonies of *Atta sexdens* leafcutter ants. *Insectes Sociaux* 47:354-356.
- Fjeringstad, E.J.**, and L. Keller. 2000. The nature of ant colony success. (Technical comment) *Science* 287:1363b.
- Boomsma, J.J., **E.J. Fjeringstad**, and J. Frydenberg. 1999. Multiple paternity, relatedness and genetic diversity in *Acromyrmex* leafcutter ants. *Proceedings of the Royal Society of London, Series B* 266:249-254.
- Fjeringstad, E.J.**, and J.J. Boomsma. 1998. Multiple mating increases the sperm stores of leafcutter ant queens. *Behavioral Ecology and Sociobiology* 42:257-261.
- Fjeringstad, E.J.**, J.J. Boomsma, and P. Thorén. 1998. Multiple paternity in the leafcutter ant *Atta colombica* - a microsatellite DNA study. *Heredity* 80:118-126.
- Gertsch, P., and **E.J. Fjeringstad**. 1997. Biased amplification and the utility of spermatheca-PCR for mating frequency studies in Hymenoptera. *Hereditas* 126:183-186.
- Fjeringstad, E.J.**, and J.J. Boomsma. 1997. Variation in body size and potential reproductive success in sexuals of the leafcutter ant *Atta colombica*. *Insectes Sociaux* 44:209-218.
- Boomsma, J.J., J. Sørensen, and **E.J. Fjeringstad**. 1994. Social evolution hos myrer. *Naturens Verden* 11:390-400.

MANUSCRIPTS SUBMITTED:

- Schtickzelle, N., **E.J. Fjeringstad**, P. Manhes, and J. Clobert. Dispersal does not hinder cooperative social clusters in a ciliate. In review after revision, *BMC Evolutionary Biology* ([†]*NS and EJF made equal contributions*).
- Fjeringstad, E.J.**, and R. H. Crozier. The evolution of sexual size dimorphism in social insects. In review, *American Naturalist*.
- Fjeringstad, E.J.** Multiple mating by queens and offspring quality in *Lasius niger* ants. In review, *Behavioral Ecology*.

MANUSCRIPTS IN PROGRESS:

- Corley, M., and **E.J. Fjeringstad**. Mating system evolution in social insects – genetic studies on queen strategies in Irish and French *Lasius niger* ants. (Note co-author is a **Queens College**, CUNY, student)
- Fjeringstad, E.J.**, M. Corley, S. Singh, T. Goodman, and G. Papacharalambous. Mating system evolution in social insects - a multipopulation study on queen strategies in *Lasius niger* ants. (Note co-authors are all **Queens College**, CUNY, students)

GRANTS:

In progress

QC Research Enhancement Award (\$ 6,000) (funded Dec., 2008)

PSC-CUNY Research Award (\$ 6,000) (funded July, 2008)

NSF URM program: Participant (PI: Dr. Stéphane Boissinot), "Mentoring urban undergraduate students in an integrated ecological research experience" (\$460,000) (4 year grant 2008-2010).

SERVICE

Journal referee:

American Naturalist - Animal Behaviour – Behavioral Ecology & Sociobiology - Ecology Letters - Ethology - Ethology, Ecology & Evolution – Evolution – Insectes Sociaux - Naturwissenschaften- Molecular Ecology- BMC Evolutionary Biology

Chairmanships:

1998-1999 International Union for the Study of Social Insects, Adelaide, Australia.

1998 Society for the Study of Evolution Annual Meeting, Vancouver, Canada.

1998 Swiss societies for Zoology and Botany, 'Ecology, Behaviour and Evolution', Geneva.

1996 Society for the Study of Evolution Annual Meeting, St. Louis, Missouri, USA.

Organisor of journal clubs

1994-2005 Denmark, Sweden, Switzerland, Australia and France.

PRESENTATIONS AT SCIENTIFIC CONFERENCES as first or senior author

2009 Society for the Study of Evolution, Annual Meeting, Moscow, ID, talk

2009 Society for the Study of Evolution, Annual Meeting, Moscow, ID, 2 posters

2009 Sigma Xi Annual Conference of the Queens College CUNY Chapter, 3 posters.

2008 Society for the Study of Evolution, Annual Meeting, Minneapolis, MN, talk.

2008 Society for the Study of Evolution, Annual Meeting, Minneapolis, MN, poster.

2008 Sigma Xi Annual Conference of the Queens College CUNY Chapter, 3 posters.

2004 Internatl. Congress of the European research network INSECT, Helsingør, Denmark.

2004 French Section of the Internatl. Union for the Study of Social Insects, Rennes, France.

2003 Internatl. Congr. European research network MODLIFE, Paris, France.

2003 French Section of the Internatl. Union for the Study of Social Insects, Brussels, Belgium.

2003 French Society for the Study of Animal Behaviour (SFECA), Tours, France.

2002 Internatl. Workshop of the European research network MODLIFE, Turku, Finland.

2002 Internatl. Union for the Study of Social Insects, Sapporo, Japan.

2001 European Society for the Study of Evolutionary Biology, Århus, Denmark.

2000 BO-ZONQ inter-campus James Cook University conference, Cairns, Australia.

1998-1999 Internatl. Union for the Study of Social Insects (IUSSI), Adelaide, Australia.

1998 Society for the Study of Evolution, Annual Meeting, Vancouver, Canada, talk

1997 European Society for the Study of Evolutionary Biology, Arnhem, Holland.

1997 Swiss societies for Zoology and Botany, Symposium on Ecology, Behaviour and Evolution, Basel.

1996 Entomology, Florence, Italy.

1996 Society for the Study of Evolution, Annual Meeting, St. Louis, Missouri, USA.

1995 British Section of the IUSSI, London, England.

- 1995 European Society for the Study of Evolutionary Biology, Edinburgh, Scotland.
 1994 Exotic Pest Ant Meeting, Lausanne, Switzerland.
 1994 Internatl. Union for the Study of Social Insects (IUSSI) Paris, France (poster).
 1994 "The Evolution of Colony Characteristics in Social Insects", Tvärminne, Finland.

INVITED TALKS:

- 2009 Fordham University, NY – invited to talk in November.
 2008 American Museum of Natural History, NY – invited to talk in November.
 2007 Georgia Technical University, Atlanta, GA.
 2006 Congress of the International Union for the Study of Social Insects, Washington DC, USA.
 2006 Department of Biological Sciences, Lancaster University, England.
 2006 Department of Biology, Westfaelische Wilhelms-University of Muenster, Germany.
 2006 Department of Biology, Queens College, CUNY, U.S.A.
 2006 Laboratory of Genetics and Population Biology, Poitiers University, France.
 2006 Laboratory of Biodiversity and Soil Function, University Paris 12, France.
 2005 Department of Zoology, Oxford University, England.
 2005 Laboratory of Genetics and Population Biology, Poitiers University, France.
 2005 Faculty of Biology, University of Bielefeld, Germany.
 2004 Department of Zoology, University of Basel, Switzerland.
 2004 Laboratory of Behavioral Ecology and Fish Population Biology. University of Pau, France.
 2002 Laboratory of Ecology, University Paris 6, Paris, France.
 2002 Congress of the International Union for the Study of Social Insects, Sapporo, Japan.
 1997 Hasli Ethological Station, Bern, Switzerland.
 1997 Zoological Museum, Zürich, Switzerland.
 1996 Institute of Biological Sciences, Aarhus, Denmark.
 1995 Institute of Biological Sciences, Aarhus, Denmark.

STUDENT MENTORING:

At Queens College, CUNY:

- 2008 - pt Margaret Corley, Master's student
 2008 - pt George Papacharalambous, undergraduate student
 2008 - pt Shridevi Singh, undergraduate student
 2008 - pt Tamara Goodman, undergraduate student
 2008 - pt Jacqueline Milander, undergraduate student
 2007- pt Randy Alessio, Master's student
 2007 Jack Giamanco, Master's student

At the University of Pierre and Marie Curie, Paris, France:

- 2005 Antoine Larrieu, undergraduate student
 2005 Arnaud Gutierrez, undergraduate student
 2004-2005 Pauline Manhes, Masters' student