

ALLEGATO A

UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di selezione per la chiamata a professore di II fascia da ricoprire ai sensi dell'art. 18, comma 1, della Legge n. 240/2010 per il settore concorsuale _____ 05/B1 - ZOOLOGIA E ANTROPOLOGIA _____, (settore scientifico-disciplinare _____ BIO/05 - ZOOLOGIA _____) presso il Dipartimento di _____ Dipartimento di Scienze e Politiche Ambientali _____, (avviso bando pubblicato sulla G.U. n. _ 1397/2020_ del __ 24/03/2020__) - Codice concorso _ 4329_

Jelena Pantel CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	PANTEL
NOME	JELENA
DATA DI NASCITA	24, 12, 1981

**INSERIRE IL PROPRIO CURRICULUM
(non eccedente le 30 pagine)**

American University of Paris
6 rue du Colonel Combes
75007 Paris, France

+33 781 615 088
Nationality: United States
Languages: English (native), French (level A2)

Academic Appointments

Jan 2019-	Assistant Professor, American University of Paris, Department of Computer Science, Mathematics, and Environmental Science (France)
2017-2019	Assistant Professor, College of William & Mary, Department of Biology (United States)
2015-2017	Postdoctoral Researcher, CNRS, Centre d'Ecologie Fonctionnelle et Evolutive (France)
2012-2015	Postdoctoral Research Fellow, University of Leuven, Laboratory of Aquatic Ecology, Evolution and Conservation (Belgium)
Spring 2012	Adjunct Faculty, St. Edward's University, School of Natural Sciences (United States)
Spring 2012	Specialist Instructor, University of Texas at Austin, School of Biological Sciences (United States)
2009-2011	Postdoctoral Research Associate, University of Illinois at Urbana-Champaign, Department of Animal Biology (United States)

Education

2009	Ph.D. in Ecology, Evolution, & Behavior The University of Texas at Austin, Austin, TX Advised by Dr. Mathew A. Leibold Thesis: <i>The Interface Between Metacommunity Ecology and Microevolution in Freshwater Zooplankton</i>
2003	B.A. in Biological Sciences with specialization in Ecology & Evolution University of Chicago, Chicago, IL

Grants and Fellowships

2020	Richard Lounsbery Foundation (PI)	€12,000
2019	University of Konstanz Visiting Professorship	€16,000
2017, 2018	College of William & Mary, Salary and Travel Grant	\$5000
2012-2015	University of Leuven, Research Fund Postdoctoral Fellowship	€77,500
2013	European Science Foundation, Networking Activity Proposal	€10,000
2007-2009	National Science Foundation, Doctoral Dissertation Improvement Grant	\$12,000
2008-2009	UT-Austin Ecology, Evolution, & Behavior, Hartman Merit Award	\$5,500
2007-2008	Ford Foundation, Diversity Dissertation Fellowship	\$21,000
2006	Kellogg Biological Station, Lauff Award and Visiting Researcher Award	\$2,000
2004-2008	UT-Austin Ecology, Evolution, & Behavior, Graduate Research Fellowships	\$10,040

Teaching & Supervisory Experience

Instructor: Numerical Approaches to Problems in Environmental Science (American University of Paris, Spring 2020). Introduction to Bayesian Data Analysis (University of Konstanz, Summer 2019). Environmental Science (American University of Paris, Spring 2020, Spring and Fall 2019). Aquatic Ecology (College of William & Mary, Spring 2018). Advanced Biostatistics (College of William & Mary, Fall 2017 and 2018). Evolution of Life on Earth (St. Edward's University, Spring 2012). Field Ecology (University of Texas at Austin, Spring 2012).

Teaching Assistant: Limnology and Oceanography, Heredity, Evolution, & Society, Molecules to Organisms, Ecology, Diversity & Ecology, Genetics (University of Texas at Austin, Fall 2003 – Fall 2008).

Supervisor: Lynn Govaert (co-supervisor, Univ Leuven, PhD received April 2018). Zeyi Han (William & Mary, Bachelors, May 2019). Mathias Vanhamel (co-supervisor, Univ Leuven, PhD expected December 2020).

Academic Service

Journal Editorial Board: Ecology Letters

Journal Review: Evolution, BMC Evolutionary Biology, Journal of Evolutionary Biology, Integrative and Comparative Biology, Molecular Ecology, The American Naturalist, Journal of Theoretical Biology, Ecology, Ecology Letters, Limnology and Oceanography, Hydrobiologia, Aquatic Microbial Ecology, Journal of Plankton Research, Oikos, Oecologia, Ecology and Evolution, Proceedings of the Royal Society B: Biological Sciences, Movement Ecology

Grant Review: National Science Foundation (NSF), Netherlands Organisation for Scientific Research (NWO), Natural Environment Research Council (NERC)

Presentations

Congress of the European Society for Evolutionary Biology, 2019, Turku, Finland (invited talk, keynote speaker)

University of Konstanz, 2019, Konstanz, Germany (invited talk)

University of Virginia, 2018, Charlottesville, VA (invited talk)

Second Joint Congress on Evolutionary Biology, 2018, Montpellier, France

East Carolina University, 2017, Greenville NC (invited talk)

University of Leuven, 2017, Leuven, Belgium (invited talk)

Centre d'Ecologie Fonctionnelle et Evolutive, 2017, Montpellier, France

Congress of the European Society for Evolutionary Biology, 2017, Groningen, The Netherlands

Ninth International Symposium on Eco-Evolutionary Dynamics, 2016, Ghent, Belgium (invited talk)

Société Française d'Ecologie 2016 Meeting, Marseille, France

Ecological Society of America 2015 Meeting, Baltimore, MD (invited talk)

Eighth International Symposium on Eco-Evolutionary Dynamics, 2015, Antwerp, Belgium

Joint Meeting British Ecological Society and Société Française d'Ecologie, 2014, Lille, France (invited talk)

Joint Aquatic Sciences Meeting, 2014, Portland, OR

Université Lille 1, 2014, Lille, France (invited talk)

Seventh International Symposium on Eco-Evolutionary Dynamics, 2013, Leuven, Belgium

Netherlands Institute of Ecology, 2013, Wageningen, Netherlands (invited talk)

Concordia University, 2012, Austin, TX (invited talk)

University of Leuven, 2012, Leuven, Belgium

Ecological Society of America 2011 Meeting, Austin, TX (invited talk)

The University of Illinois at Urbana-Champaign, 2010, Urbana, IL

Ecological Society of America 2010 Meeting, Pittsburgh, PA

Society for the Study of Evolution 2010 Meeting, Portland, OR

Annis Water Resources Institute, 2010, Muskegon, MI (invited talk)

American Society of Limnology and Oceanography 2009 Aquatic Sciences Meeting, Nice, France

Ecological Society of America 2008 Meeting, Milwaukee, WI (invited talk)

Ecological Society of America 2007 Meeting, San Jose, CA

Université Paris 6, 2007, Paris, France (invited talk)

University of Leuven, 2007, Leuven, Belgium (invited talk)

The University of Texas at Austin, 2007, Austin, TX

American Society of Limnology and Oceanography 2007 Aquatic Sciences Meeting, Santa Fe, NM (invited talk)

Geological Society of America Annual Meeting, 2002, Denver, CO

Publications

In press

Holmes, C.J., Rapti, Z., **Pantel**, J.H., Schulz, K.L., and Cáceres, C.E. Patch centrality affects metapopulation dynamics in small freshwater ponds. *Theoretical Ecology*.

In review

Pantel, J.H., T. Lamy, M. Dubart, J.-P. Pointier, P. Jarne, and P. David. Metapopulation dynamics of multiple species in a heterogeneous landscape. *Ecological Monographs*.

Vanhamel, M., J.H. **Pantel**, L. Govaert, F.T.T. Hanashiro, E.M. van den Berg, A. Gianuca, M. Jansen, and L. De Meester. Ecological feedback of rapid adaptive evolution on food-web interaction strength in the absence of community change. *Oikos*.

In preparation

Govaert, L., L. De Meester, S. Rousseaux, S. Declerck, and J.H. **Pantel**. Assessing the drivers of eco-evolutionary contributions to life history trait variation in metacommunities.

Engelen, J.M.T., L. De Meester, J.H. **Pantel**. Niche use and co-occurrence patterns of zooplankton along a strong urbanization gradient. (invited to special issue on 'Crustaceans in a changing world' in *Zoology*)

Pantel, J.H. Eco-evolutionary dynamics and the race between alternative sources of phenotypic novelty. (invited to special issue on 'Rapid Evolution' in *Genes*)

Submitted to pre-print server

Chabrierie, O., Massol, F., Facon, B., Thevenoux, R., Hess, M., Ulmer, R., **Pantel**, J.H., Braschi, J., Amsellem, L., Baltora-Rosset, S., Tasiemski, A., Grandjean, F., Gibert, P., Chauvat, M., Affre, L., Thiébaut, G., Viard, F., Forey, E., Folcher, L., Boivin, T., Buisson, E., Richardson, and D.M., Renault, D. Biological Invasion Theories: Merging Perspectives from Population, Community and Ecosystem Scales. 2019. Preprints, 2019100327.

Govaert, L., J.H. **Pantel**, and L. De Meester. 2019. Quantifying eco-evolutionary contributions to trait divergence in spatially structured systems. bioRxiv 677526, doi: <https://doi.org/10.1101/677526>

Published

Dubart, M., J.H. **Pantel**, J.-P. Pointier, P. Jarne, and P. David. Modelling competition, niche and coexistence between an invasive and a native species in a two-species metapopulation. 2019. *Ecology* 100(6):e02700.

Pantel, J.H., D.A. Bohan, V. Calcagno, P. David, P.-F. Duyck, S. Kamenova, N. Loeuille, G. Mollot, T.N. Romanuk, E. Thébault, P. Tixier, and F. Massol. 2017. 14 Questions for invasion in ecological networks. *Advances in Ecological Research* 56: 293-340.

Mollot, G., J.H. **Pantel**, and T.N. Romanuk. 2017. The effects of invasive species on the decline in species richness: a global meta-analysis. *Advances in Ecological Research* 56: 61-83.

Hablützel, P.I. and J.H. **Pantel**. 2017. Strong spatial turnover in cichlid fish assemblages in the upper río Madera (Amazon basin) despite the absence of hydrological barriers. *Hydrobiologia* 791, 221–235

Urban, M.C., G. Bocedi, A.P. Hendry, J.-B. Mihoub, G. Pe'er, A. Singer, J.R. Bridle, L.G. Crozier, L. De Meester, W. Godsoe, A. Gonzalez, J.J. Hellmann, R.D. Holt, A. Huth, K. Johst, C.B. Krug, P.W. Leadley, S.C.F. Palmer, J.H. **Pantel**, A. Schmitz, P.A. Zollner, and J.M.J. Travis. 2016. Improving the forecast for biodiversity under climate change. *Science* 353(6304).

- Govaert, L., J.H. **Pantel**, and L. De Meester. 2016. Eco-evolutionary partitioning metrics: assessing the importance of ecological and evolutionary contributions to population and community change. *Ecology Letters* 19(8): 839–853.
- Holmes, C, J.H. **Pantel**, K. Schulz, and C. Cáceres. 2016. Initial genetic diversity enhances population establishment and alters genetic structuring of a newly established *Daphnia* metapopulation. *Molecular Ecology* 25(14): 3299–3308.
- Gianuca, A.T., J.H. **Pantel**, and L. De Meester. 2016. Disentangling the effect of body size and phylogenetic distances on zooplankton top-down control of algae. *Proceedings of the Royal Society B: Biological Sciences* 283: 20160487.
- Pantel**, J.H., C. Duvivier, and L. De Meester. 2015. Rapid local adaptation mediates zooplankton community assembly in experimental mesocosms. *Ecology Letters* 18(10): 992-1000.
- Pantel**, J.H., D. Pendleton, L. Rogers, and A. Walters. 2014. Linking environmental variability to population and community dynamics. p 119-131. In P.F. Kemp [ed.], *Eco-DAS IX Symposium Proceedings*. ASLO.
- De Meester, L. and J.H. **Pantel**. 2014. Eco-evolutionary dynamics in freshwater systems. *Journal of Limnology* 73(s1): 193-200.
- Pantel**, J.H., T.E. Juenger, and M.A. Leibold. 2011. Environmental gradients structure *Daphnia pulex* × *pulicaria* clonal distribution. *Journal of Evolutionary Biology* 24(4): 723-732.
- Pantel**, J.H., M.A. Leibold, and T.E. Juenger. 2011. Population differentiation in *Daphnia* alters community assembly in experimental ponds. *American Naturalist* 177(3): 314-322.
- Orrock, J.L., J. H. Grabowski, J. H. **Pantel**, S. D. Peacor, B. L. Peckarsky, A. Sih, E. E. Werner. 2008. Consumptive and non-consumptive effects of predators on metacommunities of competing prey. *Ecology* 89(9): 2436-2445.
- Urban, M.C., M.A. Leibold, P. Amarasekare, L. De Meester, R. Gomulkiewicz, M.E. Hochberg, C.A. Klausmeier, N. Loeuille, C. de Mazancourt, J. Norberg, J.H. **Pantel**, S.Y. Strauss, M. Vellend, and M.J. Wade. 2008. The evolutionary ecology of metacommunities. *Trends in Ecology and Evolution* 23(6): 311-317.
- Tang, C. and **Pantel**, J.H. 2005. Combining morphometric and paleoecological analyses: examining small-scale dynamics in species-level and community-level evolution. *Palaeontologia Electronica* 8(2): 5A.

Teaching Experience

- Spring 2020, **Bachelors**, American University of Paris – SC2091, Numerical Approaches to Problem Solving in Environmental Science
Course objectives: Students will: (i) Learn the programming language R and the coding environment R Studio, (ii) Learn the steps of fitting data to a statistical model, (iii), Translate scientific articles into data sets, data sets into analyses, and analyses into decisions, (iv) Learn and implement the basics of data visualization, and (v) Evaluate environmental case studies that match models to data to environmental outcomes.
- Spring 2020 + Fall 2019 + Spring 2019, **Bachelors**, American University of Paris – SC1020, Environmental Science
Course description: We will study environmental science in three main units. The first unit is ecology, or the study of interactions between organisms and their environment and with other organisms. The second unit is environment and climate, where we will consider physical properties that set the context for dynamics of organisms and natural materials. The third unit is the study of environmental

issues related to human society. In the course of the semester, students are expected to develop an understanding of the scientific method and how scientists approach environmental questions.

Summer 2019, **PhD**, University of Konstanz - Introduction to Bayesian Data Analysis

Course description: What is Bayesian statistics and why is it an increasingly popular choice for statistical data analysis? What can we do with Bayesian statistics that we can't do with traditional 'frequentist' statistical tests? How can I follow a Bayesian analysis published in a scientific paper? How can I implement my own Bayesian analysis in the statistical programming language R? This course presents an opportunity to answer these questions. Bayesian statistics is an alternate statistical framework – instead of choosing among a menu of existing statistical tests (e.g. t-test, ANOVA, regression) then using cut-offs (p-values) to assess whether or not predictors have an effect, in Bayesian statistics we specify models for processes we expect generated observed data and estimate distributions of likely values for model parameters given observed data. Students will gain familiarity with what it means to use Bayesian statistics, how model parameters are estimated, and will also learn to implement Bayesian alternatives to common statistical tests (e.g. estimating differences in means between two groups, a Bayesian alternative to a t-test, and Bayesian estimation of parameters in linear models).

Fall 2017 + Spring 2018, **Masters + Bachelors**, College of William & Mary - Advanced Biostatistics

Course description: This course will combine lecture and computer exercises to expose students to statistics at the forefront of research and practice in biology and data science. Lectures, exercises, and assignments will be completed using the statistical programming language R, so foundations of programming and data management will also be conveyed as part of the course. The course will also conduct exercises using datasets representative of the type of data collected in ecology, evolution, and behavior research, so that students can determine solutions to data with complex features. The topics will include (i) an introductory overview of probability distributions and theory and introductory programming, (ii) linear modeling and model selection, (iii) multivariate statistics, and (iv) Bayesian statistics.

Spring 2018, **Masters + Bachelors**, College of William & Mary - Aquatic Ecology

Course description: This course will combine lecture and laboratory exercises to illustrate fundamental principles of population, community, ecosystem, and evolutionary ecology using freshwater aquatic systems. The course will balance well-established principles in ecology with current research in the field. Topics will include (i) understanding the physical and chemical environment and how freshwater aquatic systems present unique habitats, (ii) understanding factors that drive individual species fluctuations in population size, (iii) understanding how groups of species interact with one another and respond to their environment, (iv) a brief overview of aquatic ecosystem dynamics, and (v) evolution in aquatic organisms and how that is important to understand their ecology.

Spring 2012, **Bachelors**, St. Edward's University – Evolution of Life on Earth

Course description: Our course examines how the process of evolution, or genetic change over time, shapes all aspects of the diversity of Life found on Earth in the past, present, and future. We will discuss the cellular basis of Life, how organisms pass on traits to their offspring, the history of Earth's environment, Life's origins, and the numerous mechanisms that influence the process of evolution.

Spring 2012, **Bachelors**, University of Texas at Austin – Field Ecology (note: I co-instructed the course with Lawrence Gilbert, a faculty member at UT Austin)

Course description: Biology 373L was first offered in fall 2000. It is still evolving through feedback from participants. One important goal of the course is to provide students with hands-on experience with important sub-disciplines of ecology through group and individual projects and observations conducted primarily on the 82 acres of BFL. Because familiarity with organisms and their habitats is fundamental for making astute observations, asking non-trivial questions and developing ecological hypotheses, we spend considerable time doing collecting and identifications of common species and observations of habits and habitats of the biota. Field problems will acquaint students with approaches to studying distribution and abundance of sedentary and mobile organisms, behavioral ecology, community ecology and diversity, and ecosystem processes. In the early part of the course we will incorporate some of the most basic and useful tools for mapping, measuring and monitoring ecological phenomena and cover basic methods of analysis. Later students will be expected to apply

some of these approaches to their independent projects. Data collected by previous courses will be available so that students can add to past knowledge about the field station.

Data

13, 05, 2020

Luogo

Paris, France