Paris Veltsos

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Academic Employment

2023 - now Postdoc - Vrije Universiteit Brussel

Topic The interplay of environmental adaptation, sexually antagonistic selection and sex

chromosome evolution

Supervisor Wen-Juan Ma

Questions How does environmentally dependent sexually antagonistic selection affect sex

chromosome evolution? Does outcrossing always allow adaptation to a new niche? Establishment of an experimental system allowing introgression of beneficial alleles from

one population into another.

Experience Nematode maintenance, experimental evolution, experimental design

2020 - 2022 Associate Researcher - University of Kansas

Topic The effects of chromosomal inversions in monkeyflowers

Supervisor John Kelly

Questions What are the effects of chromosomal inversions to gene expression? What is the

contribution of inversion variation to gene expression relative to DNA sequence

variation?

Experience High molecular weight DNA extraction, pacbio sequencing and assembly, RNA

extraction >5,000 samples, RNA/DNA library prep, RNAseq analysis, genomic analysis of

inversions

2018 - 2020 Postdoctoral Fellow - Indiana University

Topic QTL for sexual dimorphism, local adaptation, sex-specific selection and sex-

chromosome evolution in the plant Silene latifolia

Supervisor Lynda Delph

Questions Are QTL associated with sexual dimorphism and environmental adaptation concentrated

on the sex chromosome? Are the genes responding to selection for large and small flowers the same? Are the same-sex biased genes responding to selection for large and small flower size? Does the emergence of dioecy increase male- and female- biased

genes equally on the sex chromosome?

Experience Genetic mapping, segregation distortion analysis, QTL analysis, RNAseq extraction and

analysis, plant maintenance

2014 - 2018 SNSF Premier Assistant - University of Lausanne

Topic The evolution of homomorphic sex chromosomes in the common frog Rana

temporaria and the annual plant Mercurialis annua

Supervisors John Pannell, Nicolas Perrin

Questions Why do some chromosomes remain homomorphic? *Mercurialis*: Is there a common Y in

all species? How degenerated is the Y in terms of gene density, gene function and gene expression compared to the rest of the genome? Are YY plants viable and fertile? *Rana*: Are frogs with Y chromosomes of different degeneration statuses different in fitness in the field? How does their gene expression differ, including during development? Can sexually antagonistic genes drive a transition from random to genetic sex determination

and how does it interact with sex-limited recombination (simulations)?

Experience DNA/RNA extractions from plants and frogs, RNAseq analysis, PCR, field collections of

plants and frogs, plant hairy root transformation and cytogenetics visiting Institute of Biophysics (Brno, Czech republic), BAC screening, sequencing and analysis, genetic

mapping, computer simulations.

2011 - 2014 NERC Postdoctoral Research Fellow - University of St Andrews

Topic Genomic response to experimental sexual selection in *Drosophila pseudoobscura*

Supervisors Michael Ritchie, Rhonda Snook (Sheffield)

Questions What are the effects of evolution unfer monogamy and polyandry in gene expression? Is

the direction of feminisation of gene expression always towards monogamy in different tissues, sexes and courtship statuses? How does sexual selection history affect the response to mating with males of the same and different sexual selection histories?

Experience Large-scale tissue collection including dissected reproductive tissue from recently mated

pairs, RNA extraction, experimental design, gene expression analysis including

interaction effects, GO analysis

2008 - 2011 NERC Postdoctoral Research Fellow - University of St Andrews

Topic QTL for pre-mating isolation in Drosophila montana

Questions Are within- and between- population QTL associated with reproductive isolation the

same?

Experience International field sampling, RNA/DNA extractions, SNPchip design from 454 data,

selection analysis, genetic mapping, QTL analysis, fly courtship song recording and

analysis, chc analysis, pedigree maintenance.

Supervisors Michael Ritchie, Roger Butlin & Jon Slate (Sheffield), Anneli Hoikkala (Jyvaskyla)

Education

2003 - 2008 PhD - Queen Mary University of London

Thesis title The involvement of a sex chromosome fusion and rDNA diversity in the

grasshopper Podisma pedestris hybrid zone

Supervisor Richard Nichols

Questions Is rDNA locus variation contributing to hybrid inviability? Are sex chromosome

combinations in hybrids deleterious? Does sexually antagonistic selection on the Y lead

to the spread of a neo-XY system throughout the species range?

Experience FISH & GISH cytogenetics, field collections, grasshopper rearring, hybrid zone

simulations in Java. Sex ratio distortion scoring in field.

2000 - 2003 BSc (Hons) Genetics - The University of Liverpool

Neoglyphidodon nigroris

Grade 1st class (also first in the class).

Publications

* = co first author, * = student author

All pdfs and associated data/scripts are at https://www.parisveltsos.com/research/cv/

ORCID: https://orcid.org/0000-0002-8872-6281

Pre-print

30. Veltsos P and Kelly JK The quantitative genetics of gene expression in *Mimulus guttatus* (in review) https://www.biorxiv.org/content/10.1101/2023.11.21.568003v1

29. Carol Moraga, Catarina Branco, Quentin Rougemont, Paris Veltsos, Pavel Jedlička, Aline Muyle, Melissa Hanique, Eric Tannier, Xiaodong Liu, Eddy Mendoza-Galindo, Claire Lemaitre, Peter D. Fields, Corinne Cruaud, Karine Labadie, Caroline Belser, Jerome Briolay, Sylvain Santoni, Radim Cegan, Raquel Linheiro, Ricardo C. Rodríguez de la Vega, Gabriele Adam, Adil El Filali, Vinciane Mossion, Adnane Boualem, Raquel Tavares, Amine Chebbi, Richard Cordaux, Cécile Fruchard, Djivan Prentout, Amandine Velt, Bruno Spataro, Stephane Delmotte, Laura Weingartner, Helena Toegelová, Zuzana Tulpová, Petr Cápal, Hana Šimková, Helena Štorchová, Manuela Krüger, Oushadee A. J. Abeyawardana, Douglas R. Taylor, Matthew S. Olson, Daniel B. Sloan, Sophie Karrenberg, Lynda F. Delph, Deborah Charlesworth, Tatiana Giraud, Abdelhafid Bendahmane, Alex Di Genova, Amin Madoui, Roman Hobza, Gabriel A. B. Marais The Silene latifolia genome and its

Selected

- 28. **Veltsos P***, **Ridout KE***, Toups MA, González-Martinez S, Muyle A, Emery O⁺, Rastas P, Hudzieczek V⁺, Hobza R, Vyskot B, Marais GAB, Filatov DA, Pannell JR (2019) Early sex-chromosome evolution in the diploid dioecious plant *Mercurialis annua*. **Genetics** 212(3): 815-835
- 27. **Veltsos P**, Fang Y, Cossins AR, Snook RR, Ritchie MG (2017) Mating system manipulation and the evolution of sex-biased gene expression in *Drosophila*. **Nature Communications** 8(1):2072
- 26. **Veltsos P**, Keller I, Nichols RA (2008) The inexorable spread of a newly arisen Y chromosome. **PLoS Genetics** 4(5): e10000082

Published

- 25. **Veltsos P,** Porcelli D, Fang Y, Cossins A, Ritchie MG, Snook RR (2022) Experimental sexual selection reveals rapid divergence in male and female reproductive transcriptomes and their interactions **Molecular Ecology** 31(12):3374-3388
- 24. Gerchen JF, **Veltsos P**, Pannell JR (2022) Recurrent allopolyploidization, Y-chromosome introgression and the evolution of sexual systems in the plant genus *Mercurialis*. **Phil. Trans. R. Soc. B** 377: 20210224
- 23. Ma, W-J, **Veltsos P** (2021) The diversity and evolution of sex chromosomes in frogs. **Genes** 12(4): 483
- 22. Wiberg RA, **Veltsos P**, Snook RR, Ritchie MG (2021) Experimental evolution confirms signatures of sexual selection in genomic divergence. **Evolution Letters** 5(3): 214-229
- 21. Ma W-J, Pannebakker BA, Li X, Geyverink E, Anvar SY, **Veltsos P**, Schwander T, van de Zande L, Beukeboom LW (2021) A single QTL with large effect is associated with female functional virginity in an asexual parasitoid wasp. **Molecular Ecology** 30(9): 1979-1992
- 20. **Veltsos P***, **Rodrigues N***⁺, Studer T⁺, Ma W-J, Sermier R, Leunberger J⁺, Perrin N (2020) No evidence that Y-chromosome differentiation affects male fitness in a Swiss population of common frogs. **Journal of Evolutionary Biology 33**(4): 401-409 ***Shared co-authors**
- 19. Li X*+, **Veltsos P***, Cossard G+, Gerchen J+, Pannell JR (2019) YY males of the dioecious plant *Mercurialis annua* are fully viable but produce largely infertile pollen. **New Phytologist** 244(3): 1394-1404 ***Shared co-authors**
- 18. **Veltsos P**, Delph LF (2019) The X chromosome is necessary for ovule production in *Silene latifolia*. **PLoS ONE** 14(5): e0217578
- 17. Veltsos P (2018) Not all sex-biased genes are the same. New Phytologist 221(1): 10
- 16. **Veltsos P**, Cossard G⁺, Beaudoing E, Beydon G, Savova-Bianchi D, Roux C, González-Martínez SC, Pannell JR (2018) Size and content of the sex-determining region of the Y chromosome in dioecious *Mercurialis annua*, a plant with homomorphic sex chromosomes. **Genes** 9(6): 277
- 15. Ma WJ, **Veltsos P**, Sermier R, Parker DJ, Perrin N. (2018) Evolutionary and developmental dynamics of sex-biased gene expression in common frogs with proto-Y chromosomes. **Genome Biology** 19(1): 156
- 14. Ma WJ, **Veltsos P**, Toups MA, Rodrigues N⁺, Sermier R, Jeffries DL, Perrin N (2018) Tissue specificity and dynamics of sex-biased gene expression in a common frog population with differentiated, yet homomorphic, sex chromosomes. **Genes** 9(6): 294
- 13. Rodrigues N⁺, Studer T⁺, Dufresnes C, Ma W, **Veltsos P**, Perrin N (2017) *Dmrt1* polymorphism and sex chromosome differentiation in *Rana temporaria*. **Molecular Ecology** 26(19): 4897-4905
- 12. Ala-Honkola O, Ritchie MG, **Veltsos P** (2016) Postmating-prezygotic isolation between two allopatric populations of *Drosophila montana*; fertilisation success differs under sperm competition. **Ecology and Evolution** 6(6): 1679-1691
- 11. **Veltsos P**, Gregson E, Morrissey B⁺, Slate J, Hoikkala A, Butlin RK, Ritchie MG (2015) The genetic architecture of sexually selected traits in two natural populations of *Drosophila montana*. **Heredity** 115(6): 565-572
- 10. **Veltsos P**, Wicker-Thomas C, Butlin RK, Hoikkala A, Ritchie MG (2012) Sexual selection on song and cuticular hydrocarbons in two distinct populations of *Drosophila montana*. **Ecology and**

- Evolution 2: 80-94. DOI: 10.1002/ece3.75
- 9. **Toups M***, **Veltsos P***, Pannel JR (2015) Plant sex chromosomes: Lost genes with little compensation. **Current Biology** 25(10) R427-430 ***Shared co-authors**
- 8. Tyukmaeva VI⁺, **Veltsos P**, Slate J, Gregson E, Kauranen H⁺, Kankare M, Ritchie MG, Butlin RK Hoikkala A (2015) Localisation of QTL for diapause and other photoperiodically regulated lifehistory traits important in adaptation to seasonally varying environments. **Molecular Ecology** 24: 2809-2819
- 7. Ala-Honkola O, **Veltsos P**, Anderson H, Ritchie M (2014). Copulation duration, but not paternity share, potentially mediates inbreeding avoidance in *Drosophila montana*. **Behavioral Ecology and Sociobiology** 68(12) 2013-2021
- 6. Bailey NW, **Veltsos P**, Tan YF, Millar AH, Ritchie MG, Simmons LW (2013) Development of tissue-specific transcriptomic resources in a non-model insect, the field cricket *Teleogryllus oceanicus*. **G3** 3(2): 225-230 DOI: 10.1534/g3.112.004341
- 5. **Veltsos P**, Ritchie MG (2011) Sympatric Speciation. In: **eLS** 2011, John Wiley & Sons, Ltd: Chichester http://www.els.net/ DOI:10.1002/9780470015902.a0001749.pub2
- 4. **Veltsos P**, Keller I, Nichols RA (2009) Geographically localised bursts of ribosomal DNA mobility in the grasshopper *Podisma pedestris*. **Heredity** 103: 54-61
- 3. Keller I, **Veltsos P**, Nichols RA (2008) The frequency of rDNA variants within individuals provides evidence of population history and gene flow across a grasshopper hybrid zone. **Evolution** 64 (4): 833-844
- 2. Keller I, Chintauan-Marquier IC, **Veltsos P**, Nichols RA (2006) Ribosomal DNA in the grasshopper *Podisma pedestris*: Escape from concerted evolution. **Genetics** 174 (2): 863-874.
- Watts PC, Veltsos P, Soffa BJ, Gill AB, Kemp SJ (2004) Polymorphic microsatellite loci in the black-and-gold chromis, Neoglyphidodon nigroris (Teleostei: Pomacentridae). Molecular Ecology Notes 4 (1): 93-95

Invited Talks

10.2021	Departmental seminal "The Y chromosome(s) of the Mercurialis species complex?", KU
	Genomics centre, Kansas, USA

- O8.2021 **Conference speaker** "Is the PAR a hotspot for genes involved with sexual antagonism and local adaptation in *Silene latifolia*?", ESEB sex chromosome satellite symposium, Prague, Czech Republic
- 02.2019 **Departmental seminar** "Insights into sex chromosome evolution from genetic mapping", Amherst College, USA
- 09.2018 **Departmental seminar** "Homomorphic sex chromosomes in plants and frogs", Indiana University, USA
- 06.2016 **Departmental seminar** "Sexual selection and homomorphic sex chromosomes", Chinese Academy of Sciences, Xishuangbanna, China
- 06.2016 **Departmental seminar** "Investigation of a homomorphic Y chromosome", DEE Lausanne, Switzerland
- 05.2015 **Departmental seminar** "Detecting sexual selection in the field in frogs", DEE Lausanne, Switzerland
- 11.2006 **Genetics society prize winner talk** "The inevitable accession of XY systems", Promega Young Geneticist of the Year, Mammalian genetics and development, London, UK

Workshop Presentations

- 11.2016 "Transcriptomic response to courtship in *D. pseudoobscura*", The mechanism of the behaviour regulation and its research method in pest or insect workshop, Guangzhou, China
- 04.2014 "My experience with RNAseq", RNAseq workshop, Centre for Genes and Genomics, Liverpool, UK

Conference Presentations

27 talks and 6 posters in national and international meetings.

Zi taiks and	b posters in national and international meetings.
10.2023	Talk "Sex-specific, population-specific segregation distortion in <i>Silene latifolia</i> ", Silene meeting Lille, France (virtual)
08.2022	Talk "The effect of chromosomal inversions on gene expression", ESEB Prague, Czech Republic
08.2021	Talk "Is the PAR a hotspot for genes involved with sexual antagonism and local adaptation in <i>Silene latifolia?</i> ", (virtual) ESEB sex chromosome symposium, Prague, Czech Republic
01.2021	Talk "Sex-specific, population-specific segregation distortion in <i>Silene latifolia</i> ", (virtual) Popgroup 55, Norwich, UK
01.2020	Talk "Artificial selection on flower size disproportionately affects sex-biased genes in <i>Silene latifolia</i> ", Popgroup 53, Leicester, UK
06.2019	Talk "Y-chromosome degeneration in plants the effect of 10 million years", Evolution, Providence, USA
06.2019	Poster "An updated genetic map in <i>Silene latifolia</i> shows sex-specific selection", Evolution, Providence, USA
08.2017	Talk Evolution of semi-independent homomorphic Y chromosomes in an annual plant species complex", ESEB, Groningen, Netherlands
01.2017	Talk "Comparison of gene expression between XX and XY males in the common frog", Popgroup, Cambridge, UK
06.2016	Talk "Investigation of a homomorphic Y chromosome", Evolution of sex determination workshop, la Sage, Switzerland
12.2015	Talk "Investigation of a homomorphic Y chromosome in an annual plant", Popgroup, Edinburgh, UK
08.2015	Talk "Sex-biased expression as a sexually antagonistic trait", ESEB, Lausanne, Switzerland
01.2014	Talk "Genomic response to experimental sexual selection", Popgroup, Bath, UK
09.2013	Talk "Genomic response to experimental sexual selection", Entomology conference, St Andrews, UK
08.2013	Talk "DNA sequence response to experimental sexual selection", ESEB, Lisbon, Portugal
12.2012	Talk "Are QTLs for behavioural variation within populations different to between populations?", Popgroup, Glasgow, UK
01.2012	Poster "Genetic maps of reproductively isolated populations of <i>Drosophila montana</i> ", Popgroup, Nottingham, UK
08.2011	Talk "QTLs for courtship song and CHCs in natural populations of <i>Drosophila montana</i> ", ESEB, Tuebingen, Germany
03.2011	Talk "Speciation through behaviour", SCAB symposium, St Andrews, UK
01.2011	Talk "Selection and population differentiation for song and cuticular hydrocarbons in <i>Drosophila montana</i> ", PopGroup, Hull, UK
09.2010	Talk "Selection and population differentiation for song and cuticular hydrocarbons in <i>Drosophila montana</i> ", New directions in sexual selection unifying behavioural and genomic approaches conference, Bath, UK
01.2010	Talk "Differential introgression of ribosomal DNA subgroups across a hybrid zone in the grasshopper <i>Podisma pedestris</i> ", Popgroup, Liverpool, UK
08.2009	Poster "Distinct genetic determination of cuticular hydrocarbon profiles in divergent <i>D. montana</i> populations", ESEB, Turin, Italy
08.2009	Talk "Studying natural variation in reproductive isolation characters with QTLs", The role of behaviour in Speciation, St Andrews, UK
12.2007	Talk "Evidence of selection on rDNA in the <i>P. pedestris</i> hybrid zone", PopGroup, Warwick, UK
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09.2006	Talk "Ribosomal DNA and reproductive isolation in the grasshopper <i>Podisma pedestris</i> ",
	L.E.R.N conference , London, UK
07.2006	Poster "A tool to better understand early sex chromosome evolution", BBSRC
	evolutionary genetics summer school, Edinburgh, UK
02.2006	Talk "The effects of a sex chromosome fusion in a naturally occurring hybrid zone",
	Royal Entomological Society Postgraduate forum, London, UK
12.2005	Talk "Simulating a hybrid zone between two different sex chromosome system
	populations", PopGroup, Edinburgh, UK
09.2005	Talk "Ribosomal RNA and reproductive isolation in the grasshopper Podisma pedestris",
	L.E.R.N conference, London, UK
09.2005	Talk "Ribosomal RNA and reproductive isolation in the grasshopper Podisma pedestris",
	11th meeting of PhD students in evolutionary biology, Bordeaux, France
08.2005	Talk "Ribosomal RNA and reproductive isolation in the grasshopper Podisma pedestris",
	ESEB, Krakow, Poland
02.2005	Poster "Grasshoppers, rDNA and FISH", Royal Entomological Society Postgraduate
	Symposium, London, UK
12.2005	Poster "Grasshoppers, rDNA and FISH", PopGroup, Reading, UK

Additional Training (Workshop / Conferences)

Participated in 22 meetings.

05.2021	Silene international meeting, (virtrual)
01.2021	Popgroup, Liverpool, UK (virtrual)
02.2020	Advocates and allies equity workshop, Indiana University, USA
09.2019	"Sex differences in the brain", Gill Centre for Biomolecular Science, Indiana University,
	USA
08.2018	ESEB, Montpellier, France
04.2018	"De novo transcriptome assembly", CGAS Indiana University, USA
06.2016	"Evolution of sex determination", University of Lausanne, Switzerland
12.2011	Association for the study of animal behaviour, London, UK
04.2011	"Transposable elements - Their functional and evolutionary biology", Genetics
	Society symposium, Edinburgh, UK
01.2010	"Genetics and Genomics of speciation workshop", Peak District, UK
11.2009	"Genetics and the causes of evolution 150 years of progress since Darwin", London,
	UK
04.2009	"Theory of Speciation", Groningen, Netherlands
09.2008	"Challenges in speciation research", Sheffield, UK
05.2008	"New frontiers in epigenetics", Genetics Society, London
02.2008	"Genes & Behaviour" Gordon Research Conference, Lucca (Barga), Italy
11.2006	"Comparative genomics and diversity", London, UK
10.2006	"Nature, nurture or neither - Genetics in the post genome era", London, UK
11.2005	"Speciation Symposium", Natural History Museum, London, UK
11.2005	"C.E.E Evolutionary inferences from phylogenetic trees", London, UK
03.2005	"Life at the Boundaries the physics of survival and endurance", London, UK
11.2004	"A walk from the wild side the genetics of domestication of livestock and crops",
	London, UK
11.2004	"Evolution and Medicine", London, UK

Teaching and Mentoring

Lecturing

I have written **15 lectures** on various subjects on evolutionary biology, incorporating recent advances in the subject and my own research. I also acted as a **tutorial group leader for 2 years**.

2023 **1 lecture, 4 paper in class discussions, student evaluation** Master course on

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	"Evolutionary genetics and genomics of sex" coorganised course at VUB, Belgium.	
2023	1 guest lecture 3rd year students on "Sex chromosome evolution" ULB, Belgium.	
2018	1 "brown bag" lecture on my research to PhD students at Indiana University, USA	
2010	5 evolution lectures to 3rd year students, St Andrews, UK	
	"Coadapted gene complexes", "Reproductive isolation", "Hybrid zones", "Evolution in	
	islands"	
2009	3 speciation lectures to 2nd year students, St Andrews, UK	

3 speciation lectures to 2nd year students, St Andrews, UK

"Speciation definitions", "Geographic modes of speciation", "Speciation comparison

between plants and animals"

2008 **1 guest lecture** 4th year students, St Andrews, UK

"The evolution of sex chromosomes and sex determination"

2003-2008 4 guest lectures, to 2nd and 3rd year students.

The lectures introduced sex chromosome evolution, my research on cytogenetics, and

hybrid zone computer simulations.

2008-2009 Tutorial group lecturer, 3rd year students, group of 8, St Andrews, UK

"Hardy Weinberg exercises", "Favourite paper discussion", "Essay writing", "Poster

preparation", "Public speaking"

Teaching assistance

I was involved in running **19 large practical classes and 3 field trips** on many topics during my PhD, including marking. I also **helped run practicals and exams** for undergraduate classes in Lausanne, including setting questions and marking for one.

2021-2022	5-part workshop on Unix, Bioinformatics, R for genomics (over Zoom), University of
	Kansas, USA (20 PhD - Teaching assistant)

- 2014-2017 **14 Botany practicals, 1st year Biology and Pharmacology students**, University of Lausanne, Switzerland (150 BSc Teaching assistant)
- 2015-2016 **4 population genetics practicals, 1st year Biology students**, University of Lausanne, Switzerland (80 BSc Teaching assitant/examiner)
- 2003-2008 First and second year undergraduates, **3 days every 2 weeks** during semester, Queen Mary University of London, UK

22 Subjects covered: Meiosis, Chromosome genetics, Viruses, Evolutionary genetics snail field trip, PCR and BLAST, DNA extraction and analysis, Algae and cyanobacteria, Mitosis video, Basic techniques in biochemistry, Genetic drift, Phage lambda, Reproductive systems in land plants, Molluscs and arthropods, Biology summer school, Osmosis - plasmolysis, Introduction to microscopy, Essential microbiological techniques, Linkage analysis, Evolution - Natural History Museum visit, Cladistics, Evolution - Kew

Gardens visit, Open day bioinformatics.

Class size 200–380 BSc – Teaching assistant and examiner

Mentoring

I have mentored **1 technician and 11 students** in the lab and supervised their written work. I have also worked closely with many PhD students both in my lab and on related projects in other labs (not listed). Some of this collaboration has resulted in **joint publications**, indicated by ⁺ in the publications section.

2020-2022 **Lab supervision** of 5 Undergraduate students (Aisha Mohamed, Guled Abdi, Apolonia Arteaga, Mae Morrison, Gabe Effiong) University of Kansas, USA (with John Kelly) >2000 of RNA and DNA extraction from plants, including greenhouse work. Also library preparation for sequencing.

2015-2016 **Masters student Nela Bacovska**, Institute of Biophysics, Brno, Czech Republic (with Roman Hobza)

"Cytogenetics and BAC libraries of sex chromosomes in Mercurialis".

2015 Internship summer student Yi Huang (8 weeks), Univeristy of Lausanne, Switzerland (with Guillaume Cossard, John Pannel)

"The viability and fertility of YY plants"

2009 Undergraduate student Holden Sheffield

"Identification of sex ratio distortion in *D. montana* lines".

2008-2009	Lab technician Barbara Morrissey (with Roger Butlin), University of Sheffield, UK
2005	Supervisor of undergraduate student Alem Gebreselassie (with Richard Nichols,
	Andrew Leitch)
	"Fluorescent in-situ hybridisation and genomic in-situ hybridisation in P. pedestris".
2004	Undergraduate student Hussna Jahan (with Irene Keller, Richard Nichols)
	"Fluorescent in-situ hybridisation in P. pedestris"

"Is the P. pedestris hybrid zone position stable over time?".

Outreach

2003

2018	Creator of podcast discussing papers and presenting them to the public through
	improvisational sketches (13 episodes http://thecatalyst.ch/category/projects/podcasts/
	science-beer-review/).
12.2013	STEM Ambassador: Interviews with students on career choices in St Modans school in
	Stirling, UK.
03.2013	STEM Ambassador: Fife Open Day Science Festival demonstrator on ear and eye
	function.
01.2009	Radio interview by St Andrews radio on Drosophila courtship song.

Academic Service and Leadership

Undergraduate student lab project

2019-2020	Journal club on plant evolution, Indiana, USA		
2016-2017	Journal club on sex chromosomes founder, Lausanne, Switzerland		
08.2015	Volunteer conference organiser for ESEB in Lausanne (1,200 participants)		
2009-2010	2009-2010 Founding member of Post Graduate BioNetwork, St Andrews, UK		
	This brought together students from 4 different buildings in weekly talks and social		
	activities, and eventually run the 2-day post-graduate symposium.		
2004-2006	Biolunch weekly staff seminar organiser, Queen Mary University of London, UK		
2005-2006	PhD student induction. Queen Mary University of London, UK		

Bioinformatics experience

Github:	https:/	/aithub.com/	/narisveltsos
(711111111).	111105.7	/ [] [[] [] [] [] [] [] [] []	DALISVEUSUS

Programming R, Perl, Python, bash, vim

RNAseq analysis Experimental design, Kallisto, EdgeR, Blast2GO, topGO

Genomics RepeatMasker, BWA, Picard Tools, GATK, vcftools, Blast, FASTQC, BWA-MEM,

samtools, augustus

QTL analysis rqtl, Lep-Map 3, Cri-map, Asreml

Population genetics Popoolation 2, adegenet

Professional Membership

2019 - now	Society for the Study of Evolution
2004 - now	The Genetics Society
2004 - now	The European Society for Evolutionary Biology
2010 - 2012	Association for the study of animal behaviour
2004 - 2009	The Royal Entomological Society

Academic Reviewing

(29 on Publons https://www.webofscience.com/wos/author/record/803139)

(29 on Publishis https://www.weboiscience.com/wos/author/record/605159)					
•	BMC Evolutionary Biology	•	Evolutionary Ecology	•	Heredity
•	Biological Journal of the	•	Genetica	•	Insects
	Linnean Society	•	Genes	•	Journal of Evolutionary
•	Current Biology	•	Genome Biology and		Biology
•	Evolution		Evolution	•	Journal of Heredity

Paris Veltsos - CV

Society B

Journal of Zoology
 Molecular Biology and

Evolution

 Molecular Ecology Resources Molecular Ecology • Molecular Phylogenetics and Evolution

New Phytologist

PlosOne

• Proceedings of the Royal

Grant Reviewing

6 Czech Science Foundation grants1 Polish Science Foundation grant

Website administration

My site (http://www.parisveltsos.com/research/ (included distribution of teaching material)

Creation of Twitter bots to report on literature (@sexChr_papers, @silenepapers, @mimuluspapers)

2009-2014 Ritchie lab website

2009-2014 Seminar shared calendars for departmental events in St Andrews

2009-2010 BioNetwork site 2004-2006 Biolunch site

References

John Kelly - Current postdoc supervisor

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Lynda Delph - Previous postdoc supervisor

Idelph@indiana.edu

Department of Biology, Jordan Hall 1001 East Third Street Indiana University Bloomington, IN 47405 USA +1 812-855-1831

John Pannell - Previous postdoc supervisor

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DEE University of Lausanne Le Biophore, Unil Sorge CH-1015 Switzerland +41 216-924-170

Richard Nichols - PhD supervisor

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Queen Mary University of London Mile End Road London E1 4NS UK +44 20-7882-3362

Mike Ritchie - Previous postdoc supervisor

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