



Curriculum Vitae



Personal information

First name / Surname	Beatriz Dáder		
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E-mail	beatrizdader@gmail.com		
Nationality	Spanish		
Date of birth			
Gender	Female		

Personal statement and statement of intent

I am a PhD from April 2015 focused on the ecological interactions between insect vectors, plant viruses and their host plants, as well as on the biology and integrated control of insect vectors of plant diseases. During this time, I have been involved in three international projects and two national projects funded by competitive programmes, and two research projects with private funding. I have contributed to 16 conferences and published six articles. Before that, I was awarded with a student fellowship for my BSc final project.

I am applying for an AgreenSkills fellowship because I consider mobility is crucial for scientific career and allows you to grow both personal and professionally. Indeed, as part of my PhD I have performed two short term research internships abroad with awarded national and European fellowships. I could realize that both periods provided me with a wider overview to continue my research. Secondly, I am interested in joining a laboratory that has collaborated with my current group for more than 15 years as both share common interests: vector biology and plant virology. Besides, it is one of the leading laboratories in plant virus transmission.

For my next step as a postdoctoral researcher, I am open to new challenges in the field and would like to guide my career into plant-insect interactions with both molecular and ecological approaches. Particularly, I have interests in plant virology, molecular interactions that mediate the involvement of host plant-virus interactions in transmission, and plant defence responses and signalling pathways. In the future, I would like to return to my home country to pursue progressive professional development and established myself as a tenured scientist.



Education and training

Location and dates	Madrid (Spain) August 2011 - April 2015
Title of qualification awarded	PhD in Agro-Environmental Technology for a Sustainable Agriculture 30 th April 2015
Principal subjects/occupational skills covered	Ecological interactions among insect vectors, plant viruses and host plants Biology and integrated management of insect vectors of horticultural crops
Name of Institute	College of Agricultural Engineering. Polytechnic University of Madrid

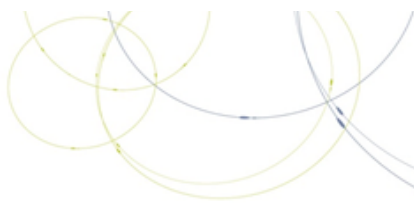
Location and dates	Madrid (Spain) September 2011 - July 2012
Title of qualification awarded	Master in Agro-Environmental Technology for a Sustainable Agriculture (MSc) July 2012
Principal subjects/occupational skills covered	Main subjects: Crop ecology and technology, Agricultural chemical analysis, Models for analysis of agro-environmental systems, Technology and development for the sustainable production of farming systems
Name of Institute	College of Agricultural Engineering. Polytechnic University of Madrid

Location and dates	Madrid (Spain) September 2004 - July 2010
Title of qualification awarded	Agricultural Engineering (BSc) July 2010
Principal subjects/occupational skills covered	Specialization in Plant protection and breeding. Main subjects: Entomology, Pathology, Genetics, Biochemistry, Plant breeding
Name of Institute	College of Agricultural Engineering. Polytechnic University of Madrid

Work experience

Location and dates	Madrid (Spain) Currently since April 2015
Occupation or position held	Postdoctoral researcher
Main activities and responsibilities	Water stress on virus transmission and feeding behaviour of pests Abiotic factors (UV, CO ₂) on plant-insect interactions
Name of employer	Institute of Agricultural Sciences. Spanish Council for Scientific Research

Location and dates	Horsham (Australia) August - December 2014
Occupation or position held	Visiting PhD student
Main activities and responsibilities	Research internship in climate change and increasing CO ₂ on plant-insect interactions (FACE facilities)
Name of employer	Grains Innovation Park. Department of Environment and Primary Industries



Location and dates	Aberystwyth (United Kingdom) April - September 2013
Occupation or position held	Visiting PhD student
Main activities and responsibilities	Research internship in UV effects on plant-insect interactions Plant physiology (HPLC, LC-MS, spectrometry)
Name of employer	Institute of Biological, Environmental & Rural Sciences. Aberystwyth University

Location and dates	Madrid (Spain) August 2011 - April 2015
Occupation or position held	PhD student
Main activities and responsibilities	Role of natural enemies in vector dispersal and virus spread Novel physicochemical barriers against pests UV effects on plant-insect interactions
Name of employer	Institute of Agricultural Sciences. Spanish Council for Scientific Research

Location and dates	Madrid (Spain) July 2010 - July 2011
Occupation or position held	Laboratory technician
Main activities and responsibilities	Efficiency of new pesticides against insect vectors of plant viruses Dose-response assessment of pest resistance
Name of employer	Institute of Agricultural Sciences. Spanish Council for Scientific Research

Location and dates	Madrid (Spain) July 2009 - June 2010
Occupation or position held	Student fellowship
Main activities and responsibilities	Molecular insect-plant interactions Protein degradation during barley leaf senescence Phylogeny and evolution of plant defence genes
Name of employer	Centre for Plant Biotechnology and Genomics. UPM-INIA Joint Research Centre

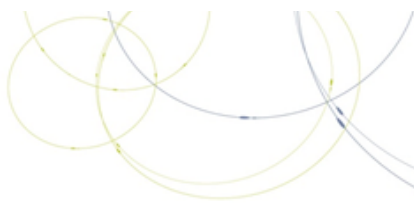
Languages

Mother tongue(s)	SPANISH				
Other language(s)	Understanding		Speaking		Writing
<i>European level (*)</i>	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	A1	A1	A1	A1	A1
	(*) Common European Framework of Reference for Languages http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr				

Academic Record



<p>Publications</p>	<p>Accepted, in press and published articles / papers:</p> <ol style="list-style-type: none"> Dáder B., Plaza M., Fereres A., Moreno A. 2015. Flight behaviour of vegetable pests and their natural enemies under different UV-blocking enclosures. <i>Annals of Applied Biology</i>. DOI: 10.1111/aab.12213. IF: 1.955. Dáder B., Legarrea S., Moreno A., Plaza M., Carmo-Sousa M., Amor F., Viñuela E., Fereres A. 2014. Control of insect vectors and plant viruses in protected crops by novel pyrethroid-treated nets. <i>Pest Management Science</i>. DOI: 10.1002/ps.3942. IF: 2.743. Dáder B., Gwynn-Jones D., Moreno A., Winters A., Fereres A. 2014. Impact of UV-A radiation on the performance of aphids and whiteflies and on the leaf chemistry of their host plants. <i>Journal of Photochemistry and Photobiology B: Biology</i>, 138, 307-316. IF: 2.803, Cites: 1. Dáder B., Legarrea S., Moreno A., Ambrós C.M., Fereres A., Viñuela E., Skovmand O., Bosselmann R. 2014. Insecticide-treated nets as a new approach to control vegetable pests in protected crops. <i>Acta Horticulturae</i>, 1015, 103-111. Dáder B., Moreno A., Viñuela E., Fereres A. 2012. Spatio-temporal dynamics of viruses are differentially affected by parasitoids depending on the mode of transmission. <i>Viruses</i>, 4, 3069-3089. IF: 2.509, Cites: 7. Cambra I., Martínez M., Dáder B., González-Melendi P., Gandullo J., Santamaría M.E., Díaz I. 2012. A cathepsin F-like peptidase involved in barley grain protein mobilization, HvPap-1, is modulated by its own propeptide and by cystatins. <i>Journal of Experimental Botany</i>, 63, 4615-4629. IF: 5.242, Cites: 5. Execution and writing of part of the experimental work. <p>Submitted publications:</p> <ol style="list-style-type: none"> Dáder B., Moreno A., Gwynn-Jones D., Fereres A. Aphid orientation and performance under different UV-A/UV-B radiation balances (in preparation). Dáder B., Fereres A., Moreno A., Trebicki P. Elevated CO₂ impacts bell pepper growth with consequences to <i>Myzus persicae</i> performance and feeding behaviour (in preparation).
<p>Presentations as invited speaker</p>	<p>Title: Impact of UV-A radiation on the performance of aphids and whiteflies and on the leaf chemistry of their host plants. Conference: 50th Annual Conference of the Australian Entomological Society. Place: Canberra, Australia. Date: 28th September-1st October 2014.</p> <p>Title: Differences in plant chemistry and crop growth under specific wavelengths of the UV region. Conference: Final Network Meeting of COST-Action FA0906 UV4Growth. Place: Bled, Slovenia. Date: 30th March-2nd April 2014.</p> <p>Title: Effects of UV radiation on pests and plant pathogens Conference: Mini-Conference Horticultural Stakeholders (COST-Action FA0906 UV4Growth) Place: Odense, Denmark Date: 9-11th March 2014</p> <p>Title: Effect of parasitoid <i>Aphidius colemani</i> Viereck (Hymenoptera: Aphidiidae) on the spread of Cucumber Mosaic Virus (CMV) transmitted by <i>Aphis gossypii</i> Glover (Hemiptera: Aphididae). Conference: VII Congress of the Spanish Society of Applied Entomology. Place: Baeza, Spain.</p>



	Date: 24-28 th October 2011.
Participation in open calls for proposals as contributor or leader	Title: Novel and sustainable approaches for integrated management of insect vectors and virus diseases in horticultural crops (AGL2013-47603-C2-2-R) Granting agency: MINECO - Retos Investigación I+D+I Duration: January 2014 - December 2016 Principal researchers: Elisa Viñuela and Alberto Fereres
Graduate teaching as lecturer or training coordinator; PhD supervision	Scientific divulgation: Instructor at the "Insect vectors of plant pathogens" Workshop within the framework of "Open Doors for Science" activities since 2010.
Awards and prizes	<ol style="list-style-type: none"> 1. PhD awarded with honours <i>cum laude</i>. Polytechnic University of Madrid (Spain) 2. Visiting PhD Fellowship. August-December 2014. Programme of Short Term Research Fellowships of the Spanish Ministry of Economy and Competitiveness of Spain. 3. Visiting PhD Fellowship. April-September 2013. Short Term Scientific Missions of the COST-Action FA0906 UV4Growth (EU RTD Framework Programme) and Programme of Short Term Research Fellowships of the Spanish Ministry of Economy and Competitiveness of Spain. 4. PhD Fellowship. August 2011-July 2015. Ministry of Economy and Competitiveness of Spain. 5. BSc final project Fellowship. September 2009-June 2010. Ministry of Education of Spain. 6. Student selected to participate in the III Congress of Young Talents representing Polytechnic University of Madrid. CEU Cardenal Herrera Oria University (Valencia, Spain). 1st-3th July 2010. 7. Honours Secondary Education Certificate. June 2004. Ministry of Education of Spain.

Collaboration and Networking

Participation in collaborative projects funded by competitive programmes	Title: Australian grains free air CO ₂ enrichment (AGFACE). Adapting to agricultural pests and diseases under future climates Granting agencies: Grains Research and Development Corporation Duration: June 2014-June 2017 Principal researcher: Piotr Trębicki
	Title: Novel and sustainable approaches for integrated management of insect vectors and virus diseases in horticultural crops (AGL2013-47603-C2-2-R) Granting agency: MINECO - Retos Investigación I+D+I Duration: January 2014-December 2016 Principal researchers: Elisa Viñuela and Alberto Fereres
	Title: Modelling European agriculture with climate change for food security (MACSUR) Granting agency: EU (FACCE-JPI) Duration: July 2012-June 2015 Principal researcher: Martin Banse
	Title: Integration of physical, chemical and biological tactics for managing insect pests and virus diseases in horticultural crops (AGL2010-22196-C02-01) Granting agency: MICINN - Plan Nacional I+D+I Duration: January 2011-December 2013 Principal researcher: Alberto Fereres



	<p>Title: UV-B radiation: a specific regulator of plant growth and food quality in a changing climate (COST-Action FA0906 UV4Growth) Granting agency: EU RTD Framework Programme Duration: January 2010-April 2014 Principal researcher: Marcel Jansen</p>
Partnerships or experience with industry	<p>Title: Mode of action of different systemic compounds against hemipteran insects and insect-transmitted viruses Granting company: BASF Española, S.L. Duration: November 2009 - November 2010 Principal researcher: Alberto Fereres</p> <p>Title: Study of the sensibility of aphid populations to the molecule XDE-208 Granting company: Dow AgroSciences Iberica, S.A. Duration: May 2008 - May 2011 Principal researcher: Alberto Fereres</p>
Membership of professional bodies and committees	<p>Member of the Associated Joint Unit "Insect-pathogen-plant interactions and their biological control agents", a joint venture between the Department of Biology and Biological Control of Pests of the Ibero-American Biodiversity Centre (University of Alicante) and the Department of Plant Protection of the Institute of Agricultural Sciences (Spanish Council for Scientific Research).</p> <p>Member of the Associated Joint Unit "Management of insect vectors under sustainable agricultural systems", a joint venture between the Department of Plant Protection of the College of Agricultural Engineering (Polytechnic University of Madrid) and the Department of Plant Protection of the Institute of Agricultural Sciences (Spanish Council for Scientific Research).</p>

Research management, Technology transfer, and Communication

Team management	<p>Organization of R&D activities at the Insect vectors of plant pathogens Workshop within the framework of "Open Doors for Science" activities since 2010.</p>
Other experience and skills relevant to the application	<p>- Good communication skills gained through contributions to 12 international conferences and four national conferences.</p> <p>- Continued training in soft and job-related skills:</p> <ul style="list-style-type: none"> • Scientific English for presentations in conferences. Spanish Council for Scientific Research (Madrid, Spain). 19th May-4th June 2014. • Training School on Plant experiments in controlled environments - from lab to field. COST-Action FA0906. Helmholtz Zentrum München (Munich, Germany). 12-13th March 2013. • Training School on Phytochemical analysis. COST-Action FA0906. Aristotle University of Thessaloniki (Thessaloniki, Greece). 13-15th February 2013. • Understanding plant disease emergence: evolutionary ecology meets genomics. International Symposium. Ramón Areces Foundation (Madrid, Spain). 8-9th February 2012. • Insect-pathogen-plant interactions and their biological control agents Workshop. Institute of Agricultural Sciences (Madrid, Spain). Annually since 2010. • Electrical Penetration Graphs Workshop/Training course. Institute of Agricultural Sciences (Madrid, Spain). 2010.



	<ul style="list-style-type: none"> - Spectrometric and chromatographic techniques (HPLC (Waters, Jasco, Empower), LC-MS (Finnigan), UV-Visible (GE Healthcare)), serologic methods (Tissue blot immunoassay, ELISA), enzymatic activity assays and molecular techniques (Western blot, protein purification). - Bioinformatics (ExpASy, Pfam, SWISS-MODEL, ClustalW, MUSCLE, Phylogeny). - Software: Statistics (SPSS, Mac StatView and SuperANOVA), SADIE and Surfer. - Organization of R&D activities within the framework of “Open doors for Science” since 2010. - Contribution and participation in multidisciplinary teams, three international projects and four national projects funded by competitive programmes and private bodies - Class representative during two years in College of Agricultural Engineering.
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Scientific References

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Institution	Spanish Council for Scientific Research
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Full name	Isabel Diaz
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Full name	Aranzazu Moreno
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How did you find out about AgreenSkills?

	My PhD supervisor emailed me a laboratory call for submissions.
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