

## PERSONAL INFORMATION



## Nidhi Raina

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ORCID: <https://orcid.org/0000-0002-7617-4731>

## WORK EXPERIENCE

Nov 2024 - Present	<b>Research Fellow</b> EU Horizon Europe Programme: ECHO - Engaging citizens in soil science: the road to healthier soils. <b>DEPARTMENT OF AGRICULTURAL SCIENCES (DISTAL), UNIVERSITY OF BOLOGNA</b> Viale Giuseppe Fanin, 40/50, 40127 Bologna BO, Italy <ul style="list-style-type: none"><li>▪ Providing project support through handling different work packages</li><li>▪ Stakeholder communication and coordination</li><li>▪ Publications and Reporting</li></ul>
Nov 2021 – 31 Oct 2024 (Defense date: 21 March 2025)	<b>PhD Fellow</b> PhD in Agricultural and Food Economics and Policy <b>DEPARTMENT OF AGRICULTURAL SCIENCES (DISTAL), UNIVERSITY OF BOLOGNA</b> Viale Giuseppe Fanin, 40/50, 40127 Bologna BO, Italy <b>Thesis Topic: EXPLORING THE INCENTIVE MECHANISMS FOR CARBON FARMING CONTRACTS</b>
Dec 2019 – Oct 2021	<b>Research Fellow</b> EU H2020 Project: CONSOLE - CONtract Solutions for Effective and lasting delivery of agri-environmental-climate public goods by EU agriculture and forestry (Research and Innovation action: H2020 - GA 817949) <b>DEPARTMENT OF AGRICULTURAL SCIENCES (DISTAL), UNIVERSITY OF BOLOGNA</b> Viale Giuseppe Fanin, 40/50, 40127 Bologna BO, Italy <ul style="list-style-type: none"><li>▪ Providing project support through handling different work packages</li><li>▪ Stakeholder communication and coordination</li><li>▪ Publications and Reporting</li></ul>
April 2017 – Aug 2017	<b>Intern</b> Building with Nature Program <b>UNESCO-IHE DELFT INSTITUTE FOR WATER EDUCATION</b> Westvest 7, 2611 AX Delft, The Netherlands <ul style="list-style-type: none"><li>▪ Research and publication-writing for Building with Nature concepts</li><li>▪ Assisting in organizing and managing the summer course on Nature-based Solutions</li></ul>
May 2015 – Aug 2015	<b>Intern</b> Leaders for Nature Program <b>INTERNATIONAL UNION FOR CONSERVATION OF NATURE (IUCN) – INDIA</b> C-10 Gulmohar Park, New Delhi, India <ul style="list-style-type: none"><li>▪ Communication with Businesses</li><li>▪ Risk-Opportunity Assessment of Businesses</li><li>▪ Organizing &amp; Reporting Masterclass between IUCN and different corporates on 4th June 2015 on</li></ul>

	Promoting eco-restoration in Aravalli.				
Sept 2013 – April 2015	<b>Project Manager</b> ITPGR project, “Using rice genetic diversity to support farmers’ adaptation to climate change for sustainable production and improved livelihoods in India.” <b>GENE CAMPAIGN</b> J-235/A Lane W-15/C Sainik Farms, New Delhi – 110062, India <ul style="list-style-type: none"><li>▪ Conducting surveys, FGDs, and interviews with the farmers</li><li>▪ Setting up community seed banks in rural areas</li><li>▪ Conducting seed diversity fairs and farmer field schools</li><li>▪ Analysing field data and writing reports for ITPGR</li></ul>				
<b>EDUCATION AND TRAINING</b>					
Sept 2015 – Aug 2017	<b>MSc Environmental Sciences</b> <b>Wageningen University &amp; Research, The Netherlands</b> Awarded Netherlands Fellowship Program (2015-2017) for the study program <b>Specialization: Environmental Systems Analysis</b>  <b>Thesis</b> Vulnerability of Southern Europe for Flood Risks & Water Sector: An Assessment with the Integrated Assessment Platform Model				
<b>PERSONAL SKILLS</b>					
Mother tongue(s)	Hindi and Kashmiri				
Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Italian	A2	A2	A2	A1	A1
<b>PROFESSIONAL SKILLS</b>	<ul style="list-style-type: none"><li>▪ <b>Research Skills:</b><ul style="list-style-type: none"><li>○ Project Management</li><li>○ Data Collection and Analysis</li><li>○ Research Strategies &amp; Research Ethics</li><li>○ Scientific &amp; Academic writing</li><li>○ Statistical skills</li></ul></li><li>▪ <b>Digital Skills:</b><ul style="list-style-type: none"><li>○ Data Analysis: R, Matlab, NVivo</li><li>○ Modelling: Matlab, R, GAMS</li><li>○ MS Office: Word, PowerPoint, Excel</li><li>○ Design software: Photoshop, InDesign</li><li>○ Climate modelling: Matlab, IMAGE, Panoply</li></ul></li><li>▪ <b>Communication Skills:</b><ul style="list-style-type: none"><li>○ Presentations and oral communications</li><li>○ Written communication: reporting and presenting</li><li>○ Interview skills (for data collection and research)</li><li>○ Stakeholder management and facilitation</li></ul></li></ul>				

## ADDITIONAL INFORMATION

### REFERENCES

#### Prof. Davide Viaggi

Professor  
Department of Agro-Food Sciences and Technologies  
University of Bologna  
Phone: +390512096114  
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#### Prof. Kasper Kok

Assistant Professor  
Department of Environmental Sciences  
Wageningen University & Research  
Email: [kasper.kok@wur.nl](mailto:kasper.kok@wur.nl)

#### Prof. Erik Mathijs

Full Professor  
Faculty of Bioscience Engineering  
Head of Bioeconomics  
KU Leuven  
Email: [erik.mathijs@kuleuven.be](mailto:erik.mathijs@kuleuven.be)

## LIST OF PUBLICATIONS

### 1. SCIENTIFIC PUBLICATIONS

- **Article:** “Incentive mechanisms of carbon farming contracts: A systematic mapping study”  
**Citation:** Raina, N., Zavalloni, M., & Viaggi, D. (2024). Incentive mechanisms of carbon farming contracts: A systematic mapping study. *Journal of Environmental Management*, 352, 120126.  
<https://doi.org/10.1016/j.jenvman.2024.120126>
- **Article:** “Evolution of Flood Defense Strategies: Toward Nature-based Solutions”  
**Citation:** Chiu, Y. Y., Raina, N., & Chen, H. E. (2022). Evolution of Flood Defense Strategies: Toward Nature-Based Solutions. *Environments*, 9(1), 2. <https://doi.org/10.3390/environments9010002>
- **Article:** “A systematic review of attributes used in choice experiments for agri-environmental contracts”  
**Citation:** N. Raina, M. Zavalloni, S. Targetti, R. D’Alberto, M. Raggi, D. Viaggi (2021). A systematic review of attributes used in choice experiments for agri-environmental contracts. *Bio-based and Applied Economics* 10(2): 137-152. <https://doi.org/10.36253/bae-9678>

### 2. TECHNICAL AND PROJECT REPORTS

- **Project Report - EU H2020 Project: CONSOLE:** CONSOLE WP2 Task2.3 Analysis of successful experiences outside Europe  
**Authors:** Targetti S., Raina N., 2022 DOI 10.6092/unibo/amsacta/7070
- **Project Report - EU H2020 Project: CONSOLE:** Deliverable D1.1: Preliminary Framework **Authors:** Viaggi D., Raggi M., Zavalloni M., Galioto F., Targetti S., Raina N., Schaller L., Eichhorn T. Kantelhardt J. 2020

**Contributors:** Bartolini F., Iglesias A., Martin Ortega J., Pluimers J., Runge T., Schulp N., Vergamini D., Cardwell M., Chartier O., Langlais-Hesse A., Holden J., Majewski E.  
<https://drive.google.com/file/d/1EVE68KrzlXsJw8NLTmYZaRyNIGgfsFNB/view>

- **Project Report - EU H2020 Project: CONSOLE:** Deliverable D1.2: Identification of potential improved solutions 2020  
**Authors:** Viaggi D., Raina N., Targetti S.  
**Contributors:** Eicchorn T., Kurttila M., Runge T., Schaller L.  
[https://drive.google.com/file/d/1dmu6\\_ziycWebac5DqMHems9szgYzCXKS/view](https://drive.google.com/file/d/1dmu6_ziycWebac5DqMHems9szgYzCXKS/view)
- **Project Report - Interreg North Sea Region - Building with Nature Project:** ‘Upscaling’: Practice, Policy and Capacity Building. Insights from the Partners’ experience. 2019  
**Authors:** Grazia Di Giovanni, Chris Zevenbergen, Yen-Yu Chui, and Nidhi Raina  
[https://northsearegion.eu/media/11655/bwnreportwp6barriers\\_final\\_submit.pdf](https://northsearegion.eu/media/11655/bwnreportwp6barriers_final_submit.pdf)
- **Project Report - Interreg North Sea Region - Building with Nature Project:** Building with Nature: Definition Final report November 2019  
**Authors:** Chris Zevenbergen, Yen-Yu Chui, Grazia Di Giovanni, and Nidhi Raina  
[https://northsearegion.eu/media/11656/definitionofbwn\\_final\\_submit.pdf](https://northsearegion.eu/media/11656/definitionofbwn_final_submit.pdf)
- **Technical Report:** Liben Report, Consultancy for IPR Praha 2017  
**Authors:** Nidhi Raina, Jules van Riel, Manon Smeets, Carolina Vosátková, Elba Stefania Valenzuela Velázquez, and Niels Zevenbergen  
[https://www.iprpraha.cz/uploads/assets/dokumenty/kvp/Prazske%20svahy/liben\\_final\\_report\\_en.pdf](https://www.iprpraha.cz/uploads/assets/dokumenty/kvp/Prazske%20svahy/liben_final_report_en.pdf)

### 3. CONFERENCES

- **Contributed paper:** Analyzing Efficient Incentive Mechanisms of Carbon Farming: A Mixed-Method Approach  
**Authors:** Raina, Nidhi; Van Ruymbeke, Kato; Zavalloni, Matteo; Mathijs, Erik; Viaggi, Davide  
**10th EAAE PhD Workshop, Budapest, Hungary, 5 – 7 June 2024**
- **Poster presentation:** Analyzing efficient incentive mechanisms of carbon farming contracts  
**Authors:** Raina, Nidhi; Van Ruymbeke, Kato; Zavalloni, Matteo; Mathijs, Erik; Viaggi, Davide  
**EJP SOIL Annual Science Days & General Meeting, Vilnius, Lithuania, 10 – 14 June 2024**
- **Contributed paper:** Analyzing efficient incentive mechanisms of carbon farming contracts through expert survey  
**Authors:** Raina, Nidhi; Van Ruymbeke, Kato; Zavalloni, Matteo; Mathijs, Erik; Viaggi, David  
**13th AIEAA Conference, Bari, 20-21 June 2024**
- **Poster presentation:** A Systematic Mapping and Case Study Analysis of Carbon Farming Payment Structures  
**Authors:** Raina, Nidhi; Zavalloni, Matteo; Viaggi, Davide  
**29 August – 1 September, 2023, Rennes, France**  
**XVII Congress of the European Association of Agricultural Economists (EAAE)**
- **Contributed Paper:** Evaluating results-based and collective contractual solutions as potential carbon farming schemes  
**Authors:** Raina, N., Zavalloni, M., Viaggi, D.  
**22 – 24 June 2022 9<sup>th</sup> EAAE PhD Workshop 2022, Italy**
- **Contributed Paper:** Systematic mapping of carbon farming schemes using the CEE method across the EU and beyond  
**Authors:** Raina, N., Zavalloni, M., Viaggi, D.

#### 16 – 17 June 2022 11th AIEAA Congress, Italy

- **Conference Proceeding:** Implementing improved contract solutions for agri-environmental public goods: preliminary results from the CONSOLE survey in Emilia-Romagna  
**Authors:** Raina, N., D'Alberto, R., Targetti, S., Zavalloni, M., Raggi, M., Viaggi, D.  
**10 – 11 June 2021 10<sup>th</sup> AIEAA Conference, Italy**
- **Conference Proceeding:** Stakeholders' perception of the potential of innovative agri-environmental and climate schemes in Emilia-Romagna  
**Authors:** Frongia, A., Targetti, S., D'Alberto, R., Raggi, M., Raina, N., Zavalloni, M., Viaggi, D.  
**10 – 11 June 2021 10<sup>th</sup> AIEAA Conference, Italy**
- **Organized Session & Presentations:** Improving the Provision of Agri-Environmental-Climate Public Goods by Agriculture and Forestry: A Conceptual Framework  
**Session organizers:** Viaggi, D., Eichhorn, T., Kantelhardt, J., Raggi, M., Raina, N., Runge, N., Schaller, L., Targetti, S., Zavalloni, M.  
**20 – 23 July 2021 16<sup>th</sup> Congress of the European Association of Agricultural Economists, EAAE, Prague**
- **Poster Presentation:** Systematic Review of Agri-environmental Scheme Attributes Used in Choice Experiments  
**Authors:** Raina, N., Zavalloni, M., Raggi, M., Targetti, S., D'Alberto, R., Viaggi, D.  
**20 – 23 July 2021 16<sup>th</sup> Congress of the European Association of Agricultural Economists, EAAE, Prague**
- **Conference Proceeding:** A systematic review of attributes used in choice experiments for agri-environmental contracts  
**Authors:** Raina, N., Zavalloni, M., Raggi, M., Targetti, S., D'Alberto, R., Viaggi, D.  
**11-12 June 2020 9<sup>th</sup> AIEAA Online Conference, Italy**  
[https://www.aieaa.org/sites/default/files/AIEAA%202020%20Programme%20Online%20Conference%20final\\_patrocinio\\_0.pdf](https://www.aieaa.org/sites/default/files/AIEAA%202020%20Programme%20Online%20Conference%20final_patrocinio_0.pdf)
- **Conference Proceeding:** The Evolution of Nature-based Solutions: Green Infrastructure, Low Impact Development, Ecological Engineering and Building with Nature  
**Authors:** Yen-Yu Chiu, Nidhi Raina, Grazia Di Giovanni, Richard Ashley, and Chris Zevenbergen  
**5-7 September 2017 Seventh International Conference on Flood Management (ICFM7), Leeds, UK**  
<https://www.icfm.world/pdf/ICFM7-Oral%20Presentations%20Book%20of%20Abstracts-ICFM7.pdf>

#### 4. THESES

- **PhD thesis** on “Evaluating carbon farming contracts and their incentive mechanisms” – *In progress*; *submission date 31 October 2024*
- **Masters' thesis** on “Vulnerability of Southern Europe for Flood Risks & Water Sector: An Assessment with the IAP Model” at Wageningen University & Research, The Netherlands for completion of MSc Environmental Science <https://www.wur.nl/en/Research-Results/Chair-groups/Environmental-Sciences/Environmental-Systems-Analysis-Group/Education/Past-MSc-theses/MSc-theses-2017.htm>
- **Internship project report** on “Nature based Solutions” at UNESCO-IHE, Delft, The Netherlands for completion of MSc Environmental Sciences at Wageningen University & Research <https://www.wur.nl/en/testimonial/Nidhi-Raina-on-her-internship-at-UNESCO-IHE-Delft.htm> (Also includes articles and movies posted on IHE-Delft website: <https://www.youtube.com/watch?v=hUkw8qAzOkE>)

- **Masters' thesis dissertation** on “Effect of arsenic stress on wheat seedlings and ability of cyanobacteria to act as bio-fertilizer” at Jamia Milia Islamia, India for completion of MSc Biosciences
- **Internship project thesis** on “Genomic analysis of part of drug resistant Pol gene in HIV positive infants from Northern part of India” National Centre for Disease Control (NCDC), Delhi, India for completion of MSc Biosciences