

Curriculum



Nome Name:	Marcin Krzysztof
Cognome Surname:	DYDESRKI

ORCID:	0000-0003-4453-2781
Scopus Author ID:	56593311700
WOS Author ID:	J-9022-2019
Sito WEB WEB site:	n.d.

POSIZIONE PROFESSIONALE ATTUALE / CURRENT PROFESSIONAL POSITION:

Posizione attuale Current position:	In service
Qualifica Qualification:	Associate Professor (L. 240/10)
Ateneo/Ente/Azienda University/Institution/Company:	Polish Academy of Sciences
Nazione Ateneo/Ente/Azienda University/Institution/Company Country:	POL
Anno inizio Start Year:	2022
Anno fine End Year:	n.d.

PRECEDENTI ESPERIENZE LAVORATIVE (ULTIMI 10 ANNI) / PREVIOUS WORK EXPERIENCE (LAST 10 YEARS):

Qualifica Qualification:	Researcher
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Ateneo/Ente/Azienda University/Institution/Company	Polish Academy of Sciences
Posizione Sede Lavorativi (indicare Nazione e Città) Workplace Location (specify Country and City):	Kórnik, voivodato della Grande Polonia, Polonia
Anno inizio Start Year:	2019
Anno fine End Year:	2022
Descrizione Description:	

Qualifica Qualification:	Researcher
Ateneo/Ente/Azienda University/Institution/Company	Bundesforschungs- und Ausbildungszentrum für Wald, Naturgefahren und Landschaft
Posizione Sede Lavorativi (indicare Nazione e Città) Workplace Location (specify Country and City):	n.d.
Anno inizio Start Year:	2023
Anno fine End Year:	2023
Descrizione Description:	Visiting professor (three months contract)

LINGUE / LANGUAGES:

Lingua Language:	English
Scrittura Writing:	C1
Comunicazione Communication:	C1

Lingua Language:	Polish
Scrittura Writing:	native language
Comunicazione Communication:	native language

Lingua Language:	Spanish
Scrittura Writing:	A2

Comunicazione Communication:	A2
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AREA/SETTORE SCIENTIFICO-DISCIPLINARE / AREA/SECTOR SCIENTIFIC-DISCIPLINARY

Area scientifico-disciplinare Area scientific-disciplinary:	Scienze biologiche
Area scientifico-disciplinare codice Area scientific-disciplinary code:	05
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-Ecologia -Fisiologia vegetale -Botanica sistematica
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-BIOS-05/A -BIOS-02/A -BIOS-01/B

Area scientifico-disciplinare Area scientific-disciplinary:	Scienze agrarie e veterinarie
Area scientifico-disciplinare codice Area scientific-disciplinary code:	07
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-Selvicoltura, pianificazione ed ecologia forestale
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-AGRI-03/B

DESCRIZIONE DEI PRINCIPALI RISULTATI SCIENTIFICI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 PUBBLICAZIONI) / DESCRIPTION OF THE MAIN SCIENTIFIC RESULTS ACHIEVED IN THE LAST 10 YEARS (WITH ATTACHED LIST OF MAXIMUM 10 PUBLICATIONS):

Descrizione Description:	<p><i>1. I developed a set of species distribution models for trees and shrubs, predicting shifts of their ranges under climate change scenarios. My team described them and found that coniferous trees will be more threatened than broadleaved, also providing trait-dependent relationships to extrapolate results for wider range of species. I also published maps of threat, used in national and international forest policies. 2. I revealed environmental drivers of invasive species spread into native ecosystems. In a series of studies I quantified role of propagule pressure and habitat invasibility, developing models of invasive species growth and establishment. 3. I assessed impacts of woody invaders on ecosystems, including light interception, nutrients cycling, primary</i></p>
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	<p><i>production, and biodiversity. I also compared effects of invaders on various habitats. I also quantified main factors determining tree biomass and demography in mountain forests, including growth, recruitment, and mortality. 4. I determined patterns of vegetation response to human impact, including forest management, river regulation, land-use change (mining), and urbanization. Using both historical and current vegetation surveys I revealed how taxonomic, functional, and phylogenetic diversity changed responding to these factors. Moreover, I explained patterns of species composition shifts under human impact. 5. I co-developed mathematical models to estimate tree biomass using tree- and stand-level data. These models improved accuracy of carbon reporting in Poland, and contributed to better understanding of forest productivity.</i></p>
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PUBBLICAZIONI / PUBLICATIONS:

Anno della pubblicazione Year of publication:	2025
Citazione Citation:	Dyderski M.K., Paż-Dyderska S., Jagodziński A.M., Puchałka R. 2025. Shifts in native tree species distributions in Europe under climate change. <i>Journal of Environmental Management</i> 373: 123504.

Anno della pubblicazione Year of publication:	2024
Citazione Citation:	Jagodziński A.M., Horodecki P., Jasińska A.K., Maliński T., Pilarek Z., Woźniak K., Wrońska-Pilarek D., Zieliński J., Dyderski M.K. 2024. Invasive <i>Sorbaronia fallax</i> nothosubsp. <i>mitschurinii</i> affects temperate Scots pine forest biodiversity and functioning. <i>Forest Ecology and Management</i> 568: 122147.

Anno della pubblicazione Year of publication:	2024
Citazione Citation:	Bury S., Dyderski M.K. 2024. No effect of invasive tree species on aboveground biomass increments of oaks and pines in temperate forests. <i>Forest Ecosystems</i> 11: 100201

Anno della pubblicazione Year of publication:	2023
Citazione Citation:	Wrońska-Pilarek D., Rymaszewicz S., Gawryś R., Jagodziński A.M. Dyderski M.K. 2023. Temperate forest understory vegetation shifts after 40 years of conservation. <i>Science of the Total Environment</i> 895: 165164

Anno della pubblicazione Year of publication:	2023
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Citazione Citation:	Puchałka R., Paż-Dyderska S., Jagodziński A.M., Sádlo J., Vítková M., Klisz M., Koniakin S., Prokopuk Y., Netsvetov M., Nicolescu V-N., Zlatanov T., Mionskowski M., Dyderski M.K. 2023 Predicted range shifts of alien tree species in Europe. Agricultural and Forest Meteorology 341: 109650.
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Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Dyderski M.K., Żarnowiec J., Stebel A., Chmura D. 2022. Propagule pressure and land-use are more important than climate for invasive bryophytes regional distributions. Landscape Ecology 37:1871-1884.

Anno della pubblicazione Year of publication:	2021
Citazione Citation:	Dyderski M.K., Jagodziński A.M. 2021. Impacts of invasive trees on alpha and beta diversity of temperate forest understories. Biological Invasions 23: 235-252

Anno della pubblicazione Year of publication:	2020
Citazione Citation:	Dyderski M.K. Pawlik Ł. 2020. Spatial distribution of tree species in mountain national parks depends on geomorphology and climate. Forest Ecology and Management 474: 118366

Anno della pubblicazione Year of publication:	2019
Citazione Citation:	Dyderski M.K., Jagodziński A.M. 2019. Seedling survival of Prunus serotina Ehrh., Quercus rubra L. and Robinia pseudoacacia L. in temperate forests of Western Poland. Forest Ecology and Management, 450: 117498.

Anno della pubblicazione Year of publication:	2018
Citazione Citation:	Dyderski M.K., Paż S., Frelich L.E., Jagodziński A.M. 2018. How much does climate change threaten European forest tree species distributions? Global Change Biology 24(3): 1150-1163

DESCRIZIONE DEI PRINCIPALI PROGETTI DI RICERCA E PREMI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, PRINCIPAL INVESTIGATOR O COORDINATORE LOCALE DI PROGETTI DI RICERCA COMPETITIVI NAZIONALI O INTERNAZIONALI, SIGNIFICATIVI PREMI CONSEGUITI PER LA PROPRIA ATTIVITÀ DI RICERCA)/ DESCRIPTION OF THE MAIN RESEARCH PROJECTS AND AWARDS AWARDED IN THE LAST 10

YEARS (WITH ATTACHED LIST OF MAXIMUM 10 ACHIEVEMENTS, INCLUDING, FOR EXAMPLE, PRINCIPAL INVESTIGATOR OR LOCAL COORDINATOR OF NATIONAL OR INTERNATIONAL COMPETITIVE RESEARCH PROJECTS, SIGNIFICANT AWARDS AWARDED FOR YOUR RESEARCH ACTIVITY):

Descrizione Description:	<i>I was PI in two research projects financed by National Science Center (Poland) and in one scholarship project (see details below). Moreover, I received national-level scholarships and awards listed below.</i>
Descrizione Description:	2020-2024 – research project ‘Impact of invasive tree species on ecosystem services: plants biodiversity, carbon and nitrogen cycling and climate regulation’ (2019/35/B/NZ8/01381), financed by the National Science Centre in Opus 18 competition. Project budget: 1 465 980.00 PLN. My role: principal investigator
Descrizione Description:	2019 – research project covering a doctoral scholarship „ETIUDA”, financed by the National Science Centre, Poland (2018/28/T/NZ8/00290) for the internship in Laboratorio de Invasiones Biológica (Universidad de Concepción, Chile) August-November 2019. Project budget: 74 656.00 PLN. My role: principal investigator
Descrizione Description:	2016-2019 – research project ‘Ecophysiological and ecological determinants of invasiveness of trees and shrubs with the examples of Padus serotina, Quercus rubra and Robinia pseudoacacia’ (2015/19/N/NZ8/03822), financed by the National Science Centre in Preludium 10 competition. Project budget: 149 412.00 PLN. My role: principal investigator
Descrizione Description:	Placed in the top 2% of scientists based on citations in 2023 by Stanford-Elsevier ranking
Descrizione Description:	Scholarship of Ministry of Science and Education for outstanding young researchers (2021)
Descrizione Description:	START scholarship for young scientists financed by the Foundation for Polish Science (2022)
Descrizione Description:	2018 - member of the team awarded by State Forests with a Grand Prix named by Adam Loret for the most relevant for basic or applied science work related to forestry
Descrizione	2021 - finalist of POLITYKA journal scientific award in 'life sciences' category

Description:	
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SVILUPPO DI RETI E RELAZIONI SCIENTIFICHE NAZIONALI E INTERNAZIONALI (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, PARTECIPAZIONE O ORGANIZZAZIONE DI CONVEGNI NAZIONALI E INTERNAZIONALI; CONTRIBUTI A CONSORZI DI RICERCA) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF DEVELOPMENT OF NATIONAL AND INTERNATIONAL SCIENTIFIC NETWORKS AND RELATIONS (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, PARTICIPATION OR ORGANIZATION OF NATIONAL AND INTERNATIONAL CONFERENCES; CONTRIBUTIONS TO RESEARCH CONSORTIA):

Descrizione Description:	<i>Participant in numerous scientific conferences (plenary speaker below), e.g. NEOBIOTA2018, NEOBIOTA2024, IBFRA2023, 7th European Congress of Conservation Biology “Biodiversity positive by 2030” 2024 Two long-term international internships: 8 – 13 October 2024 – internship in Universidade Federal de Rondonópolis (Brazil) to start the scientific collaboration with Prof. Dr. Jeater Santes, financed by the Polish Academy of Sciences and Institute of Dendrology of the Polish Academy of Sciences. During the internship I visited two globally endangered biomes (Cerrado and Pantanal) and I started collaborating on projects aiming to improve urban landscape planning and biodiversity conservation in these biomes. 2 August – 3 December 2019 – internship in Laboratorio de Invasiones Biológica (Universidad de Concepción, Chile) under the supervision of Prof. Anibal Pauchard, financed by the National Science Centre in Etiuda 6 competition. During the internship I analyzed patterns of functional traits of Central European plant species naturalized in Chile, I learned biogeographic variability of Chile and I studied the impact of alien plant species on the homogenization of phylogenetic structure of roadside vegetation in the Andes. Three months stay in Vienna as guest professor - development of future colaboration with Dr. Katharina Lapin</i>
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Descrizione Description:	Member of the Scientific Committee of the International Conference for ‘Research and Practice in Forest Ecology’ (Kórnik 2024)
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Descrizione Description:	2024 Białowieża Ecology Conference – plenary speaker: Woody plants invasion in temperate forests: drivers and impacts.
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Descrizione Description:	2024 Wood Future - invited speech for the wood industry and state forest conference in Poznań: Future of pine and spruce under climate change
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Descrizione Description:	2024 Research and Practice in Forest Ecology. International Scientific Conference for Young Scientists - plenary speaker: Future of European tree species: how will climate change shape forests?
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Descrizione Description:	Supervisor of two ERASMUS scholarship students in IDPAS: MSc Michaela Michalkova and MSc Lucia Čahojova from Institute of Botany Slovak Academy of Sciences
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SUPPORTO ALLA COMUNITÀ SCIENTIFICA (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, RESPONSABILITÀ DI DIREZIONE DI COMITATI EDITORIALI; INCARICHI DI VALUTAZIONE DELLA RICERCA PRESSO ISTITUZIONI NAZIONALI O INTERNAZIONALI; RESPONSABILITÀ ISTITUZIONALI ALL'INTERNO DELL'ISTITUZIONE DI APPARTENENZA O DI ALTRE ISTITUZIONI) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF SUPPORT TO THE SCIENTIFIC COMMUNITY (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, MANAGEMENT RESPONSIBILITIES OF EDITORIAL COMMITTEES; RESEARCH EVALUATION ROLES AT NATIONAL OR INTERNATIONAL INSTITUTIONS; INSTITUTIONAL RESPONSIBILITIES WITHIN THE INSTITUTION OF AFFILIATION OR OTHER INSTITUTIONS):

Descrizione Description:	<i>Besides activities mentioned below (supervision, reviews, editorial board) I'm a co-founder of Białowieża Statistical School, a non-profit course of R programming in ecology for MSc and PhD students. We conducted six intensive courses (six days each) for >100 participants, significantly enhancing their understanding of statistical methods in ecological research. I'm also active data contributor to iNaturalist, improving global biodiversity database (currently >14000 observations)</i>
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Descrizione Description:	Reviewer of >130 manuscripts of scientific articles, including Biological Invasions (14), Diversity and Distributions (7), Forest Ecology and Management (10), Functional Ecology (1), Global Change Biology (2), Global Ecology and
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	Biogeography (1), Journal of Applied Ecology (3), Journal of Ecology (4), Nature Communications (1), NeoBiota (2), Science of the Total Environment (9), Soil Biology & Biochemistry (1), Urban Forestry & Urban Greening (5)
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Descrizione Description:	Reviewer of two PhD theses and two habilitation courses
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Descrizione Description:	Editor in Chief of Dendrobiology journal since 2021 (IF2023=1.4, Web of Science Q2)
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Descrizione Description:	Supervisor of PhD Student (MSc. Sebatsian Bury, 2022-ongoing), Co-supervisor of PhD Student (MSc Cornelia Amon, 2023-ongoing), auxiliary supervisor of PhD Thesis (Dr. Quadri A. Anibaba, 2021-2025). Supervisor of one engineer (bachelor) thesis and two MSc theses
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Descrizione Description:	Member of comitee of scientific staff evaluation for years 2023-4 in IDPAS
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI VALORIZZAZIONE DELLE CONOSCENZE (CON ANNESSO ELENCO DI MASSIMO 3 RISULTATI, RELATIVI ALLA PARTECIPAZIONE DEL CANDIDATO ALLE ATTIVITÀ DI VALORIZZAZIONE DELLE CONOSCENZE) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF KNOWLEDGE VALORIZATION (WITH ATTACHED LIST OF MAXIMUM 3 RESULTS, RELATING TO THE CANDIDATE'S PARTICIPATION IN KNOWLEDGE VALORIZATION ACTIVITIES):

Descrizione Description:	
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Informazioni aggiornate alla data di candidatura 08-05-2025

Marcin Krzysztof DYDESZKI

Il presente curriculum costituisce allegato e parte integrante dell'incarico sottoscritto