

INFORMATII PERSONALE

Vlad IORDACHE



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Sexul M | Data nasterii 13/04/1975 | Nationalitatea Romana

EXPERIENTA PROFESIONALA

Oct. 2014 - prezent

Profesor universitar

Universitatea Tehnica de Constructii Bucuresti

- Activitati didactice si de cercetare

Tipul sau sectorul de activitate Educatie / Cercetare

Oct. 2008 – Sept. 2014

Conferentiar universitar

Universitatea Tehnica de Constructii Bucuresti

- Activitati didactice si de cercetare

Tipul sau sectorul de activitate Educatie / Cercetare

Octombrie 2004 - 2008

Sef de lucrari universitar

Universitatea Tehnica de Constructii Bucuresti

- Activitati didactice si de cercetare

Tipul sau sectorul de activitate Educatie / Cercetare

Octombrie 2001 - 2004

Asistent universitar

Universitatea Tehnica de Constructii Bucuresti

- Activitati didactice si de cercetare

Tipul sau sectorul de activitate Educatie / Cercetare

Octombrie 1999 - 2002

Monitor de cercetare

Universite de La Rochelle, France

- Activitati didactice si de cercetare (studii doctorale)

Tipul sau sectorul de activitate Educatie / Cercetare

Octombrie 1998 - 2001

Preparator universitar

Universitatea Tehnica de Constructii Bucuresti

- Activitati didactice si de cercetare

Tipul sau sectorul de activitate Educatie / Cercetare

EDUCATIE SI FORMARE

Iun. 2013

Certificat de Abilitare in cercetare

Universitatea Tehnica Gheorghe Asachi din Iasi

- Domeniul Geniu Civil - Calitatea Mediului Interior. Conducere doctorat - ciclul III

- Oct. 2005 - Nov. 2005 **Certificat de Absolvire Curs Postuniversitar**
 Universitatea Tehnica de Constructii Bucuresti
 ▪ Certificarea si Auditarea Energetica a cladirilor
- Oct. 1999 – Ian. 2013 **Diploma Doctor in Stiinte**
 Universite de La Rochelle, France
 ▪ Cercetari in domeniul Geniu Civil : Calitatea Aerului Interior
- Sept. 1999 - Aug. 2002 **Attestation de Fin de Monitorat – Certificat de formare pedagogica**
 Universite de La Rochelle, France
 ▪ Monitor de cercetare (studii doctorale, activitati didactice si cursuri de specializare pedagogica)
- Oct. 1998 - Iun. 1999 **Diplôme d’Etude Approfondies – Studii de Master**
 Universite de La Rochelle, France
 ▪ Master Européen Grand Atlantique Génie Civil – Option Physique du Bâtiment – Fizica cladirii
- Oct. 1998 - Iun. 1999 **Diploma de Studii Aprofundate – Studii de Master**
 Universitatea Tehnica de Constructii Bucuresti
 ▪ Confort si Eficienta Energetica in Cladiri
- Oct. 1993 - Iun.1998 **Certificat de formare pedagogica**
 Universitatea Tehnica de Constructii Bucuresti
 ▪ Cursuri de formare pedagogica
- Oct. 1993 - Iun.1998 **Diploma de Merit de Inginer**
 Universitatea Tehnica de Constructii Bucuresti
 ▪ Studii in domeniul Inginerie civila – Instalatii si Echipamente

COMPETENTE PERSONALE

Limba Materna Romana

Alte limbi straine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Perticipare la conversatie	Discurs oral	
Limba Engleza	C1	C1	C1	C1	C1
	TOEFL 570/660.				
Limba Franceza	C1	C1	C1	C1	C1

Competente comunicare ▪ Competente comunicare foarte bune : 23 ani de activitate didactica; 50 conferinte; peste 50 sustineri proiecte;

Competente legate de servicii ▪ Standuri experimentale: usa suflanta cu 1 si cu 2 ventilatoare, system de masura poluanti, system de generare poluanti, testate acustice de tamplarie
 ▪ Masurari termografie infrarosu: la cladiri, instalatii si echipamente

Competente informatice ▪ MacOS, Windows, MsOffice, Matlab, ACAD, Programare, EES, altele

- Carnet de conducere masina** ▪ B
- Competente organizatorice si manageriale**
- Responsabil / Organizator Curs PostUniversitar Audit Energetic Cladiri si Sistemele de Instalatii aferente 2022-prezent
 - Director Proiect national de cercetare PNII TE 2011: 2011-2014
 - Director Proiect national de cercetare PNII IDEI 2007: 2007-2010
 - Director Proiect national de cercetare PNII PED 2017: 2017-2018
 - Responsabil stiintific Proiect francez national de cercetare PRIMEQUAL PREDIT 1999-2002
 - Responsabil stiintific Romanian research project PNII – Cooperare 2008-2011
 - Responsabil Partener – Program international de mobilitati TEMPUS WATERMOST
 - Participant la aproximativ 25 proiecte de cercetare.
 - Organizator Workshop-uri in domeniul “Calitatea Aerului Interior” la Facultatii de Instalatii - UTCB, Bucuresti 25-29 Nov 2007,
 - Membru Comitet de Organizare Conferinte Young Researchers Conference ‘10-’13, conferinte Internationale
 - Coordonator proiecte de diploma – licenta si dizertatie
 - Coordonator practica studenti 1998-2008

Alte competente

Domenii de experienta

- calitatea mediului interior;
- calitatea aerului interior;
- acustica cladirilor si a instalatiilor;
- Instalatii sanitare
- Instalatii de incalzire;
- Permeabilitatea la aer a cladirilor
- Contorizare consumuri caldura;
- Folosirea repartitoarelor de pret;
- Calcularea listelor de intretinere pt o asociatie de proprietari ;
- Certificare si auditare energetica;
- Echilibrari hidraulice;

INFORMATII SUPLIMENTARE

- Publicatii** - Peste 200 articole, dintre care: 31 articole in Web of Science (9 reviste si 5 conferinte), peste 30 in reviste BDI, restul in reviste si conferinte necotate;
WoS Hindex 7 Scopus Hindex 8 Google Hindex 11
- 8 carti, dintre care: 3 unic/prim autor restul coautor
- Proiecte** - Peste 25 Proiecte nationale de cercetare dintre care: 3 director proiect, 3 responsabil, restul membru
- Peste 100 Proiecte tehnice in domeniile: acustica cladirii, eficienta energetica, investigatii paramtrii confort in cladiri, permeabilitate la aer a cladirilor, dintre care mentionam :
- Individualizarea consumurilor de energie termica si a costurilor aferente in cadrul condominiilor – Contract ANRSC / 2007;
- Implicatiile reabilitarii termice asupra reglajului termic al instalatiilor districtuale de incalzire centrala alimentate de sistemul de incalzire urbana – Grant Elvetia 01.06.2010 – 01.12.2011 – coordonator - director de proiect;
- Asociatii profesionale**
- ASHRAE - American Society of Heating, Refrigerating and Air-Conditioning Engineers, -2009
 - SRA – Romanian Society of Acoustics www.sra.ro -2008
 - SRMTA – *Societatea Romana de Mecanica Teoretica si Aplicata* - 2013
 - AIIR – Romanian association building services engineers - www.aiiro-bucuresti.ro -2006
 - OAER – *Ordinul Auditorilor Energetici din Romania* - 2013
- Premii** - Peste 10 premii internationale si nationale: in cadrul confeintelor, premii pentru proiecte de cercetare, premii pentru publicatii de articole in Web of Science, premii pentru cel mai bun articol in revista Building an Environment in 2011
- Certificat de excelenta in Evauari de articole de cercetare “Certificate of Excelence in Reviewing” acordat de revista Energy and Building

- Referinte si Acreditari**
- De la ministerul MDRT din Romania : si MECTS si INTERNATIONALE)
- Auditor energetic autorizat.
 - Verificator proiecte instalatii termice.
 - Verificator proiecte instalatii sanitare.
 - Specialist in cadrul Consiliului Tehnic Permanent pentru Constructii al MDRT pentru activitati specialitate Decizii 10/15.06.2011 si 11/15.06.2011
 - Specialist in cadrul Consiliului Tehnic Permanent pentru Constructii al MDRT pentru avizarea agrementelor tehnice Decizii 10/15.06.2011 si 11/15.06.2011
- De la ministerul MECTS din Romania
- Evaluator proiecte de tip Grant PNII IDEI Comisia 2 Civile: 6 Pr. in 2008;
 - Evaluator proiecte de tip Grant PNII RES. PD Comisia 2 Mecanica: 2 Pr. in 2010
 - Evaluator international proiecte de tip Grant – Bulgaria;
 - Evaluator proiecte de tip Grant PNII PARTENERIATE Comisia 2 Civile si mecanica
 - Membru in Comisia 2 Inginerie Civila si management de specialitate CNATDCU din 2010
 - Membru in Comisia 2 Inginerie Civila si management de contestatii CNATDCU din 2016
 - Reviewer International ISI Journal « Building and Environment » din 2011
 - Reviewer International ISI Journal « Energy and Building » din 2012
 - Reviewer International ISI Journal « Energy Savings and Engineerings » din 2018
- De la ministerul reviste si conferinte internationale si nationale :
- Editor si Reviewer International ISI Journal « Romanian Journal of Acoustics and Vibration » din 2013
 - Editor si Reviewer National CNCSIS B+ Journal of Mathematical Modeling in Civil Engineering 21 art. din 2010
 - Reviewer National CNCSIS C Journal Buletinul Stiintific al UTCB din nov 2010
 - Editor si Reviewer National CNCSIS B+ Journal Acta Napocensis: Civil and Architectural din mai 2011
 - Reviewer First Young Researchers Conference – UTCB 18-19 Nov 2010
 - Reviewer International Conference EEVIRO – 2013-2017
 - Reviewer International Conference CLIMA 2019

ANNEXES

Carti publicate in domeniu

- [1] **lordache Vlad**, Petcu Cristian, (2023), Permeabilitatea la aer a cladirilor si debitul de aer infiltrat, Seria: Complemente Ingineresti, *Editura MATRIX ROM*, Bucuresti, ISBN 978-606-25-0810-4
- [2] **Vlad lordache**, Tiberiu Catalina, Acustica cladirilor si a instalatiilor. Aplicatii Proiectare. Seria: Complemente Ingineresti, *Editura MATRIX ROM*, Bucuresti , 2013, ISBN 978-973-755-9098
- [3] **Vlad lordache**, Instalatii de incalzire interioare cu apa calda. Seria Complemente Ingineresti, *Editura MATRIX ROM*, Bucuresti , 2013, ISBN 978-973-755-896-1
- [4] Ilinca Mihai, Dumitrescu Liviu, **Vlad lordache**, ... et. al. – Manualul de Instalatii – Incalzire- Capitor 4.12 Protectie la zgomot, *Ed. Artecno Bucuresti SRL*, 2010, ISBN Manualul instalatorului 978-973-85936-5-7 ISBN Volum Instalatii de Incalzire 978-973-85936-6-4
- [5] **Vlad lordache**, Protectie la Zgomot. Acustica cladirilor si a instalatiilor, *Editura MATRIX ROM*, Bucuresti , 2007, ISBN 978-973-755-224-2
- [6] Florinela Ardelean, **Vlad lordache**, Ecologie si Protectia Mediului, *Editura MATRIX ROM*, Bucuresti, 2007, ISBN 978-973-755-255-6
- [7] Florin lordache, Bogdan Caracaleanu, **Vlad lordache**, Termotehnica constructiilor. Culegere de probleme rezolvate, *Editura MATRIX ROM*, Bucuresti, 2006, ISBN
- [8] Florea Chiriac, Florin lordache, Dan Constantinescu, **Vlad lordache**, Nicolae Antonescu, ... et. al. – Auditul energetic al cladirilor existente si sistemenlor aferente de alimentare cu caldura – Prelegeri curs postuniversitar, *Conspress Bucuresti*, 2005, ISBN 973-7797-45-0
- [9] Ghiaus, C., **Vlad lordache**, Allard, F., Blondeau, P. (2005). Outdoor-indoor pollutant transfer, in *Natural ventilation in the urban environment - assessment and design* (ed. C. Ghiaus and F. Allard), Editura JAMES AND JAMES EARTHSCAN, London, UK, ISBN 1-84407-129-4 hardback

Publicatii in Web of Science

- [1] Sebastian Barbu Barbes, Ana Cornelia Badea, **Vlad Iordache**, Monitoring Industrial VOC Emissions and Geospatial Analysis, *Environments*, 2026, 13(1), 41; <https://doi.org/10.3390/environments13010041>
- [2] Dan-Adrian Ionescu, **Vlad Iordache**, Iulian-Cristian Ene and Ion Anghel, Efficiency of Positive Pressure Ventilation Compared to Organized Natural Ventilation in Fire Scenarios of a Multi-Story Building, *Appl. Sci.* 2025, 15(12), 6934; <https://doi.org/10.3390/app15126934>
- [3] Mihai Dima, Iulian-Cristian Ene, **Vlad Iordache** and Florin Ioan Bode, Full-Scale, Experimental Stand Development with HRR Determination from Mass Loss and CFD Model Validation, *Fire*, 2026, 9(1), 1; <https://doi.org/10.3390/fire9010001>
- [4] Dan-Adrian Ionescu, **Vlad Iordache**, Iulian-Cristian Ene and Ion Anghel, Impact of Fire Source Locations and Ventilation Strategies on Indoor Environments: An FDS Simulation Study, *Fire* 2026, 9(1), 22; <https://doi.org/10.3390/fire9010022>
- [5] Iulian-Cristian Ene, **Vlad Iordache**, Mihai Dima and Ion Anghel, HRR-Based Calibration of an FDS Model for Office Fire Simulations Using Full-Scale Wood Crib Experiments, *Appl. Sci.* 2025, 15(12), 6909; <https://doi.org/10.3390/app15126909>
- [6] Iulian-Cristian Ene, **Vlad Iordache**, Ion Anghel, The Impact of an Office Fire Combined with the Stack Effect in a Multi-Story Building, *Applied Sciences*, 2024, 14, 11659, <https://doi.org/10.3390/app142411659>
- [7] Vasilica Vasile, **Vlad Iordache**, Valentin Mihai Radu, Cristian Petcu, Claudiu-Sorin Dragomir, The Effects of an Adaptive Ventilation Control System on Indoor Air Quality and Energy Consumption, *Sustainability* 2024, 16, 9836, <https://doi.org/10.3390/su16229836>
- [8] Vasile, V.; **Iordache, V.**; Radu, V.M.; Dragomir, C.-S. (2024), The Relationship between Mechanical Ventilation, Indoor Air Quality Classes, and Energy Classes in a Romanian Context, **Atmosphere**, 15(4), 444. IF 2.9, CiteScore 4.1, ISSN 2073-4433, <https://doi.org/10.3390/atmos15040444>
- [9] Vasile, V., **V Iordache**, V M Radu (2023), The influence of ventilation on indoor air quality in buildings with variable pollutant emissions, **IOP Conf. Ser.: Earth Environ. Sci.** 1185, 012006
- [10] **Vlad Iordache**, Valentin Mihai Radu, Vasilica Vasile (2021), Analysis of Yearly and Daily Variation of the Ground Level Ozone Concentration in Bucharest, Romania, Proceedings of 2021 10th International Conference on Energy and Environment (CIEM): Bucharest, Romania, 14-15 October, IEEE Catalog Number: CFP21L60-ART, ISBN166544584X, 9781665445849, **DOI: 10.1109/CIEM52821.2021.9614940**
- [11] Lulea Marius, Iordache, Vlad, Ilinca Nastase, 2021, Numerical Model Development of the Air Temperature Variation in a Room Set on Fire for Different Ventilation Scenarios, *Applied Sciences - Basel*, 2021, 11(24), 11698; <https://doi.org/10.3390/app112411698>
- [12] Catalina, T., **Iordache, V.**, Iordache, F., *Correlation between air and sound propagation to determine air permeability of buildings for single/double wood pane windows*, *Energy and Buildings*, 2020, 224, 110253
- [13] V. Vasile, C. Petcu, **V. Iordache (2019)**, Experimental studies on TVOC concentrations and their relationships with indoor comfort parameters, **Rev.Chem.(Bucharest)**, 70(12):4145-4152 (eng), ISSN 0034-7752, disponibil la <http://www.revistadechimie.ro/>
- [14] Toderasc Mihai, **Iordache Vlad**, Petcu Cristian, Petran Horia, 2019, *Real time monitoring of indoor environment quality and energy consumption in a residential building*, *ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL*, 8(7):1561-1574
- [15] Marcus, Gabriel, **Iordache Vlad**, Iordache Florin, Ilie Anica, 2019, *Energy analysis of a CHP plant with internal combustion engines, for a district heating system, based on the information from the annual database*, EENVIRO ScDoct 3E Conference Bucharest 2018
- [16] **V Iordache**, MV Ionita, 2019, *Urban sound energy reduction by means of sound barriers*, *E3S Web of Conferences* 32, 01011,
- [17] MD Lulea, **V Iordache**, I Năstase, 2019, *Fire modelling in a non-ventilated corridor*, *E3S Web of Conferences* 32, 01011
- [18] L Tăcutu, I Nastase, **V Iordache**, T Catalina, CV Croitoru, 2019, *Real scale experimental study for performance*

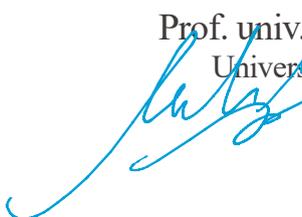
- 2017 *evaluation of unidirectional air diffuser perforated panels*, E3S Web of Conferences 32, 01014, accepted Octombrie 2018
- [19] **lordache, Vlad**; lordache, Florin, 2017, *Air permeability measurements in a Deep Freeze Warehouse*, Conference: Conference on Sustainable Solutions for Energy and Environment (EENVIRO) Location: Bucharest, ROMANIA Date: OCT 26-28, 2016 Book Series: Energy Procedia Volume: 112 Pages: 489-496
- [20] Tacutu, Laurentiu; Pocola, Adrian; Balan, Mugur; **lordache, Vlad**, 2017 *Acoustic measurements for two configurations of acoustic casings with applications on ambient noise pollution*, Conference: 8th International Conference on ENERGY and ENVIRONMENT (CIEM) Location: Bucharest, ROMANIA Date: OCT 19-20, 2017 Book Series: International Conference on Energy and Environment Pages: 129-133
- [21] **lordache, Vlad**; Teodosiu, Catalin; Teodosiu, Raluca; Catalina, Tiberiu, 2016, Permeability measurements of a passive house during two construction stages Conference on Sustainable Solutions for Energy and Environment (EENVIRO), Bucharest, ROMANIA, 18-20NOV2015; Book Series: Energy Procedia, Volume: 85, Pages: 279-287
- [22] Mihai, Toderasc; **lordache, Vlad**; 2016, Determining the indoor environment quality for an educational building; Conference on Sustainable Solutions for Energy and Environment (EENVIRO); Bucharest, ROMANIA; 18-20 NOV 2015; Book Series: Energy Procedia, Volume: 85, Pages: 566-574,
- [23] Catalina, Tiberiu; lordache, Florin; **lordache, Vlad**, 2013, *NEW METHOD FOR QUICK EVALUATION OF THE HEATING ENERGY DEMAND OF RESIDENTIAL BUILDINGS*, Conference: 13th International Conference of the International-Building-Performance-Simulation-Association (IBPSA) Location: Chambery, FRANCE Date: AUG 25-28, 2013 BUILDING SIMULATION 2013: Pages: 3177-3182
- [24] Catalina, Tiberiu; **lordache, Vlad**; Caracaleanu, Bogdan, 2013, *Multiple regression model for fast prediction of the heating energy demand*, ENERGY AND Buildings, Vol 57, pp 302-312,
- [25] **Vlad lordache**, Tiberiu Catalina *, 2012, Experimental investigation on the sound pressure level for a high thermal capacity burner during a running cycle. Applied Acoustics (2012), <http://dx.doi.org/10.1016/j.apacoust.2012.11.004>
- [26] **Vlad lordache**, Tiberiu Catalina*, Acoustical approach for building air permeability estimation, *Building and Environment*, Volume 57, November 2012, Pages 18-27
- [27] Tiberiu Catalina, **Vlad lordache***, IEQ assessment on schools in the design stage, *Building and Environment*, Volume 49, March 2012, Pages 129-140
- [28] **Vlad lordache***, Ilinca Nastase, Andrei Damian, Iolanda Colda, Average permeability measurements for an individual dwelling in Romania, *Building and Environment*, Volume 46, Issue 5, May 2011, Pages 1115-1124
- [29] Nastase I*, Meslem A, **Vlad lordache**, Colda I, Lobed grilles for high mixing ventilation - An experimental analysis in a full scale model room, *Building and Environment*, Volume 46, Issue 3, March 2011, Pages 547-555
- [30] Patrice Blondeau*, **Vlad lordache**, Olivier Poupard, Francis Allard – Relationship between outdoor and indoor air quality in 8 French schools, *Indoor Air*, 2005, Volume 15, issue no. 1, pages. 2-12(11)
- [31] O. Poupard, P. Blondeau*, **Vlad lordache**, F. Allard, Statistical analysis of parameters influencing the relationship between outdoor and indoor air quality in schools, *Atmospheric Environment*, volume 39, (2005), 2071-2080

Prof. univ. dr. habil. ing. Vlad IORDACHE

Universitatea Tehnica de Constructii Bucuresti

Facultatea de Inginerie a Instalatiilor

Centru Cercetare CAMBI



Descriere activității și servicii
Acustica in constructii si in mediul urban
Masurari experimentale

- Nivel de zgomot
- Durata de reverberatie
- Indice de izolare acustice;

Proiectare

- Tratarea acustica a peretilor interiori
- Propagarea zgomotului in spatii exterioare
- Proiectarea barierelor acustice
- Izolare acustica

Energetica cladirii
Masurari experimentale energetice

- Masurarea permeabilitatii la aer a cladirilor;
- Determinare de rezistente termice a peretilor;
- Vizualizari puncti termice la pereti;
- Vizualizari infiltratii aer exterior;

Proiectare energetica

- Certificare energetica;
- Auditare energetica;
- Studii conformare NZEB;
- Studii SAER (Surse Alternative de Energie Regenerabila)

Predare cursuri postuniversitare

- Auditul Energetic al Cladirilor si Sistemelor de Instalatii Aferente
- Permeabilitatea la Aer a Cladirilor si Debitul de Aer Infiltrat

Descriere activității de cercetare
Domenii cercetare

- Permeabilitatea la Aer a Cladirilor (1 teza doctorat)
- Energetica Cladirilor si Instalatiilor (2 teze doctorat)
- Calitatea Aerului Interior (2 teza doctorat)
- Calitatea Mediului Interior (1 teza doctorat)
- Acustica Cladirilor si Instalatiilor (1 teza doctorat)
- Poluare Urbana si a Mediilor Industriale (2 teze doctorat)
- Protectie la Incendiu in Caldiri (3 teze doctorat)
- Cogenerare si Trigenerare Energetica (1 teza doctorat)

Participare in cercetare

- Responsabil / Organizator Curs Audit Energetic Cladiri si Sisteme Aferente de Instalatii
- Director de 3 proiecte de cercetare si membru in peste 25 proiecte cercetare ;
- Recenzor de articole la reviste WoS, BDI
- Membru in comitete editoriale la reviste BDI ;
- Evaluator proiecte cercetare in comisia Inginerie Civila
- Evaluator proiecte cercetare in comisia Inginerie Mecanica ;
- Conducator de Doctorat din 2013;