Institute of Applied Mathematics and Mechanics

Executive Report for the Year 2024

12/06/2025

University of Warsaw
Faculty of Mathematics, Informatics and Mechanics

University of Warsaw

Note: texts in blue are clickable links

Agenda

1. Staff Matters
2. Research and Financial Matters
3. Teaching Matters

Staff Matters

Monika J. Piotrowska

External awards

- **Prof. Urszula Foryś** has been awarded the Hugo Steinhaus Main Award of the Polish Mathematical Society (PTM) (2025)
- **Prof. Agnieszka Świerczewska-Gwiazda** was elected a member of the European Academy of Sciences (2024)
- **Dr. Tomasz Dębiec** received the Minister's Scholarship for Outstanding Young Scientists (2024)
- **Dr. Krzysztof Argasiński** received the Tom Vincent Award, granted by the Executive Committee of the International Society of Dynamic Games for paper "Beyond the Classical Hamilton's Rule: State Distribution Asymmetry and the Dynamics of Altruism" (2024)

External awards for students

- **Maciej Głuchowski** received the 2nd prize (ex aequo) in the *68th edition of the Józef Marcinkiewicz Competition for the best student paper in mathematics* for his work titled "Representation of Interacting Particle Systems by Random Currents"; supervisor: Prof. Jacek Miękisz
- **Wiktor Wichrowski** received the 3rd prize in the *58th edition of the Competition for the best student paper in probability theory and applications of mathematics* for his bachelor's thesis titled "The Lavrentiev Phenomenon in One Dimension"; supervisor: Prof. Iwona Chlebicka
- **Krzysztof Zakrzewski** received an honorable mention in the *58th edition of the Competition for the best student paper in probability theory and applications of mathematics* for his master's thesis titled "Gradient Approximation by Convolution within the Robbins-Monro Algorithm"; supervisor: Prof. Błażej Miasojedow

Employee Recognition Awards (2024)

Rector's Individual Awards for Organizational Achievements:

- Prof. Dariusz Wrzosek (1st degree)
- Dr. Piotr Kowalczyk (2nd degree)

Rector's Individual Awards for Scientific Achievements:

- Dr. Jan Peszek (1st degree)
- Prof. Iwona Chlebicka (2nd degree)
- Dr. hab. Tomasz Piasecki (2nd degree)

Rector's Distinctions:

- Prof. Piotr B. Mucha
- Dr. Konrad Sakowski

Teaching awards

Golden Pen (Złote Pióro) students' award for best teachers

- Classes: **Dr. Łukasz Rajkowski** (2025)
- Labs: **Dr. Bartosz Bieganowski** (2025)

Golden Pen award nominees:

- Obligatory lectures:
  - Prof. Piotr Krzyżanowski (2025)
- Elective lectures:
  - Prof. Piotr B. Mucha (2025)
  - Prof. Piotr Krzyżanowski (2024)
- Classes:
  - Prof. Piotr Krzyżanowski (2024)
- Labs:
  - Dr. Krzysztof Myśliwy (2025)
  - Dr. Konrad Sakowski (2024, 2025)
  - Prof. Piotr Krzyżanowski (2024, 2025)
  - Dr. Bartosz Bieganowski (2024)

Teaching awards

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- Classes:
  - Prof. Piotr Krzyżanowski (2024)
- Labs:
  - Dr. Krzysztof Myśliwy (2025)
  - Dr. Konrad Sakowski (2024, 2025)
  - Prof. Piotr Krzyżanowski (2024, 2025)
  - Dr. Bartosz Bieganowski (2024)

Honorable positions in scientific societies

Honorable positions held by our staff in scientific societies:

- **Prof. Jacek Miękisz**
  President of the Polish Mathematical Society
- **Prof. Agnieszka Wiszniewska-Matyszkiel**
  Chair of the Warsaw Branch of the Polish Mathematical Society

Promotions

Professors:

- Prof. Iwona Chlebicka (2025)
- Prof. Błażej Miasojedow (2025)
- 1 ongoing process

Habilitations:

- Dr. hab. Dominika Machowska (2024)
- Dr. hab. Tomasz Piasecki (2024)
- 2 ongoing processes

Promotions (positions)

Professor → Full Professor (research & teaching)

- **Prof. Agnieszka Świerczewska-Gwiazda** (2024)

Associate Professor → Professor (research & teaching)

- **Prof. Iwona Chlebicka** (2025)
- **Prof. Błażej Miasojedow** (2025)

Assistant → Senior Assistant (teaching)

- **Dr. Łukasz Rajkowski** (2024)

Assistant → Assistant Professor (research)

- **Dr. Akash Parmar** (2024)

New employees

Between 01/10/2023 and 01/10/2024

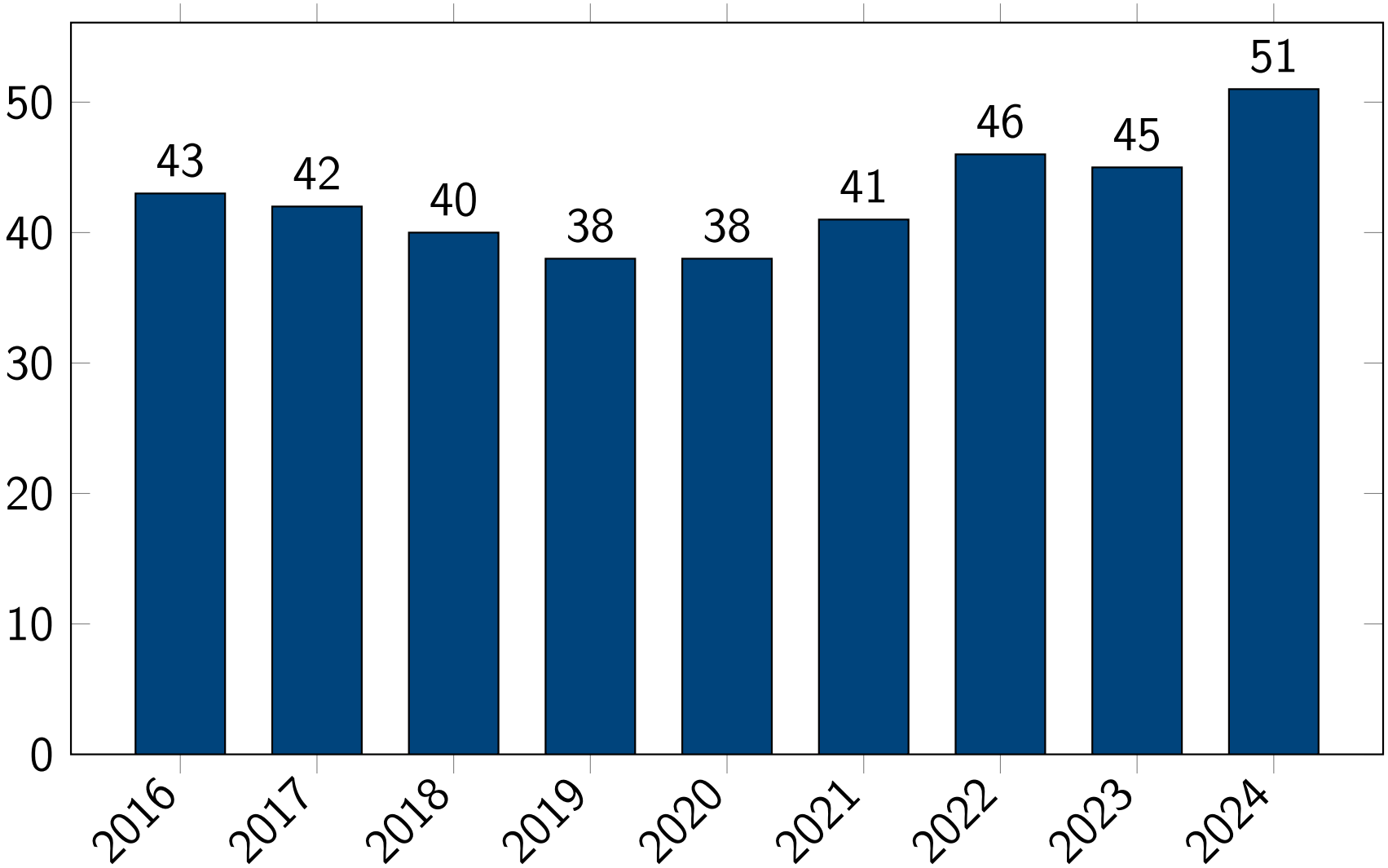
Research positions:

- Dr. Nilasis Chaudhuri (Assistant Professor)
- Dr. Akash Parmar (Research Assistant)
- Dr. Daniel Strzelecki (Assistant Professor)

Research & teaching positions:

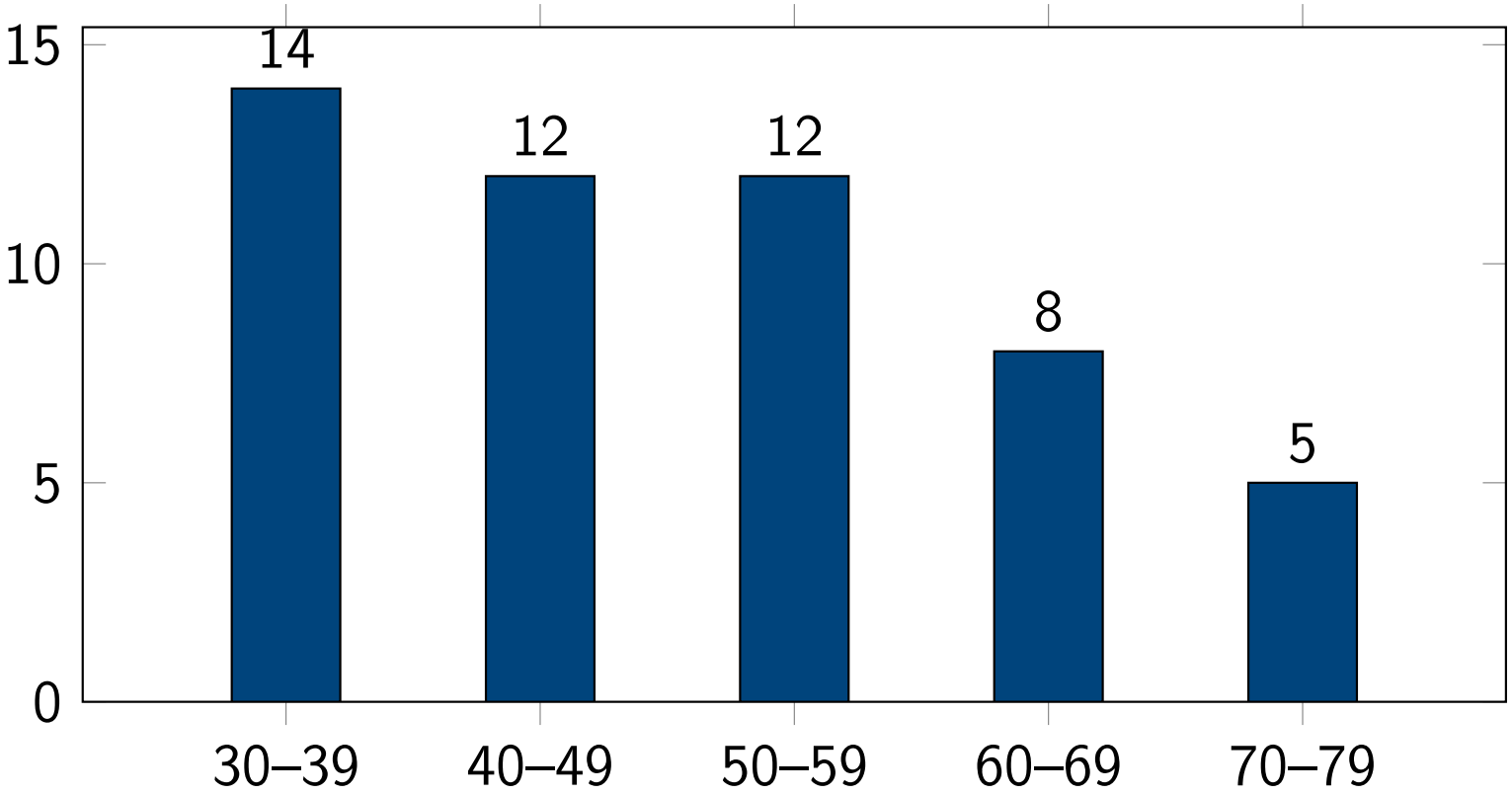
- Dr. Krzysztof Myśliwy (Assistant Professor)
- Dr. Jacopo Schino (Assistant Professor)
- Dr. Maja Szlenk (Assistant)

Number of employees



as of 01/10

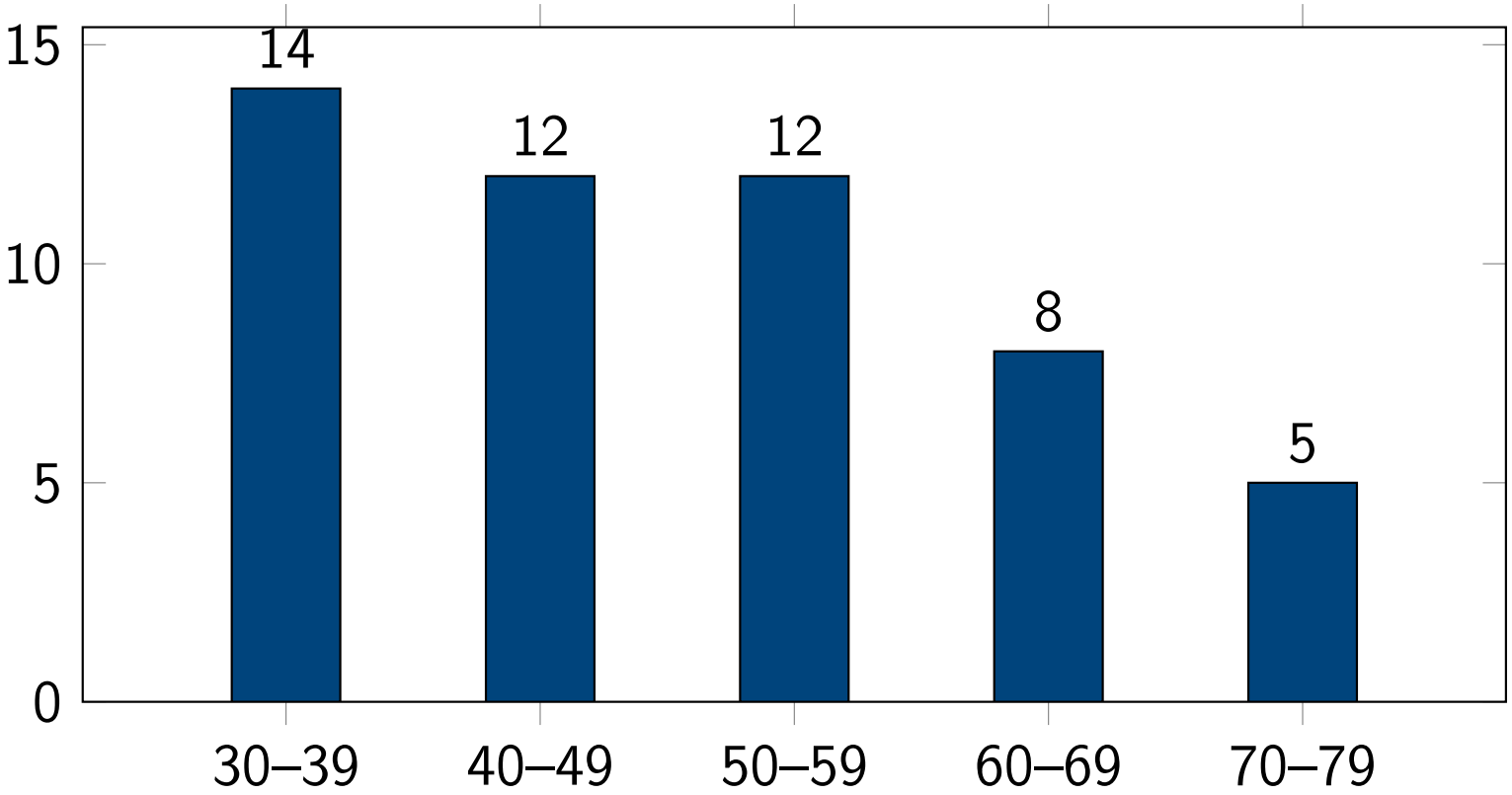
Population age structure



Staff group	research & teaching	research	teaching
Avg. age	50.5	42.3	45.1

as of 01/10/2024

Population age structure



Staff group	research & teaching	research	teaching
Avg. age	50.5	42.3	45.1

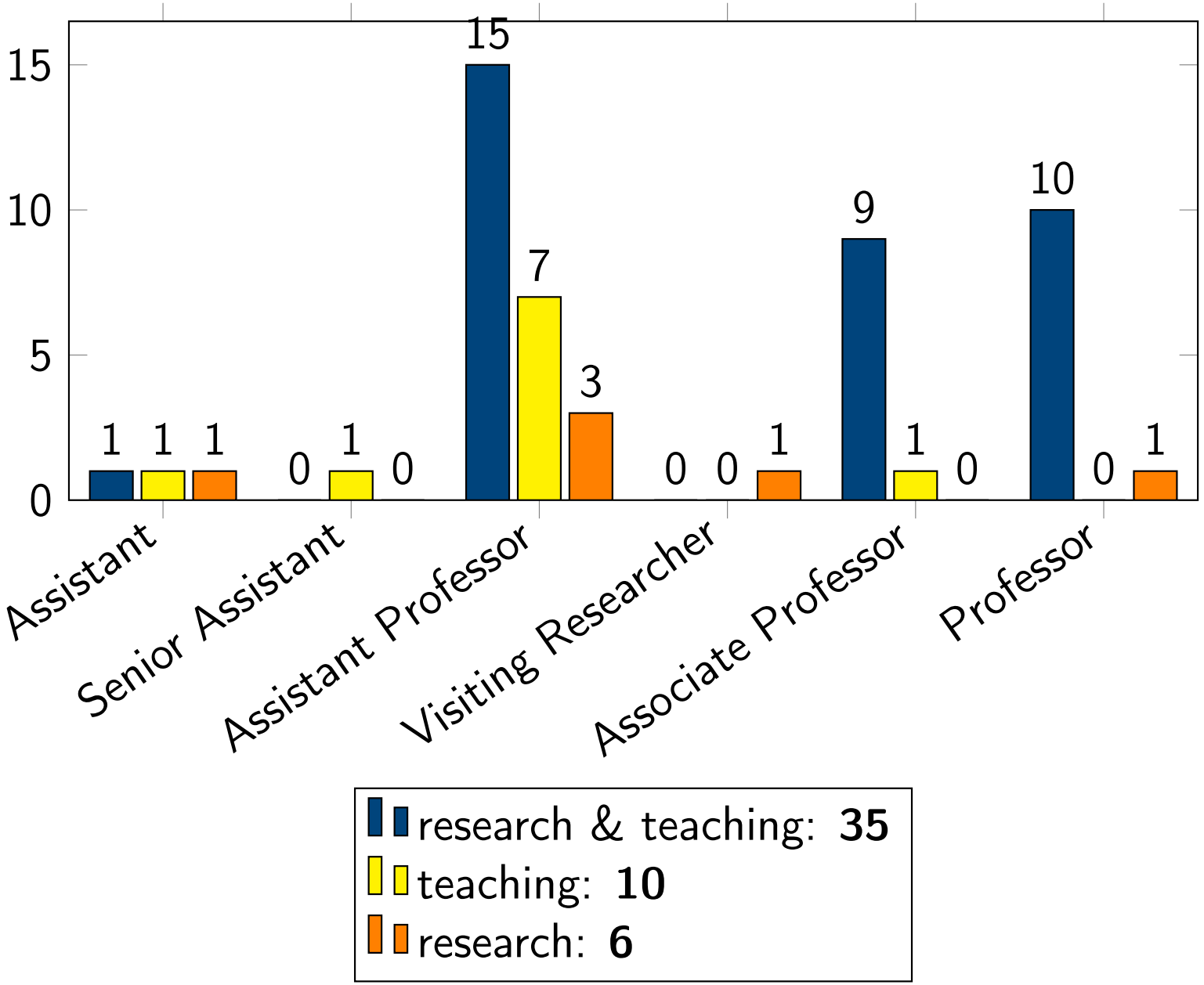
as of 01/10/2024

Employment positions

	2020	2021	2022	2023	2024
Professor	11	11	11	11	11
Associate Professor	5	9	10	9	10
Assistant Professor	21	18	23	22	25
Senior Assistant					1
Assistant	1	2	1	2	3
Visiting Researcher/Professor		1	1	1	1
Total	38	41	46	45	51

as of 01/10

Employment structure



as of 01/10/2024

Research and Financial Matters

Anna Zatorska-Goldstein

Publications 2024 (summary)

publications	2019	2020	2021	2022	2023	2024
200 p.	4	2	4	5	6	5
140 p.	17	11	14	10	17	24
100 p.	25	19	10	13	17	27
70 p.	7	8	5	1	0	4

Monographs:

- *Advances in Efficient Design of Experiments in Economics*
  Michał Wiktor Krawczyk, **John Noble**
  Cambridge University Press, 2025

Publications 200p.

200 p.

- Calculus of Variations and Partial Differential Equations (4):
  - I. Chlebicka & B. Miasojedow
  - P. B. Mucha
  - A. Świerczewska-Gwiazda
  - J. Schino
- Mathematische Annalen:
  - N. Chaudhuri & P. B. Mucha
- Science of the Total Environment:
  - D. Strzelecki[1]

[1] without MIMUW affiliation

Publications 200 p. (summary)

	2020	2021	2022	2023	2024
Automatica		1	1		
Calc Var Partial Diff Eq	1			2	4
Commun Pur Appl Math				1	
Genome Biol			1		
GigaScience			1		
Int J Numer Methods Eng				1	
J Comput Graph Stat		1	1		
Math Ann		1	1	2	1
Nature Commun		1			
Sci Total Environ	1			1	(1)
Total	2	4	5	6	5 (+1)

Publications 140 p. (1/2)

140 p.

- ACS Photonics (1)
  (Sakowski)
- Advances in Calculus of Variations (2)
  (Chlebicka, Chlebicka & Zatorska-Goldstein)
- Analytical Chemistry (1)
  (Miasojedow)
- Annales de l'Institute Henri Poincaré-Analyse Non Linéare (1)
  (Mucha & Piasecki)
- Comm PDE (1)
  (Chaudhuri)
- European Journal of Operational Research (1)
  (Wiszniewska-Matyszkiel)
- Games and Economic Behavior (1)
  (Machowska)
- ICCS (1)
  (Niemiro)
- JDE (1)
  (Schino)

Publications 140 p. (2/2)

140 p.

- Materials (1)
  (Sakowski)
- Nonlinear Analysis, theory, methods and applications (1)
  (Chlebicka & Miasojedow)
- Nonlinear Dynamics (1)
  (Bodnar & Foryś & Piotrowska)
- Physical Review Applied (1)
  (Sakowski)
- Physical Review B (1)
  (Myśliwy)
- Physical Review E (4)
  (Karbowski (x2), Mohamadichamgavi & Miękisz, Myśliwy)
- Scandinavian Journal of Statistics (1)
  (Miasojedow)
- Scientific Reports (1)
  (Piotrowska & Sakowski)
- SIAM J. Math. Anal. (3)
  (Dębiec, Dębiec & Świerczewska-Gwiazda, Parmar)

We kindly ask to send the complete details of publications (with doi number) to

bib_pbn@mimuw.edu.pl

Please do not send “online first” incomplete publications, accepted papers, etc.

New grants summary (according to the starting year)

	2020	2021	2022	2023	2024
M. Skłodowska-Curie ITN		1			
NAWA					1
NCN Maestro					1
NCN Opus	2	1	2	1	
NCN Sonata				1	1
NCN Sonata bis	1	1			
NCN Preludium	1			1	(1)
NCN Preludium bis	1		1		

New grants 2024 (and 2025)

- NAWA - **Tomasz Dębiec**
  Connecting Modelling Paradigms in Multi-Phase Tissue Growth Models
  Joint Research Project with TU Dresden
- NCN Sonata - **Tomasz Dębiec**
  Multiscale modelling of fluids and tissues
- NCN Maestro - **Agnieszka Świerczewska-Gwiazda**
  Beyond classical hydrodynamics - new mathematical description of physical phenomena
- 2025: NCN Opus - **Błażej Miasojedow**
  Calculus of variation for Machine Learning Problems

PhD students

Number of students admitted to Warsaw Doctoral School of Mathematics and Computer Science (Mathematics)

	2019	2020	2021	2022	2023	2024
Mathematics	9	11	9	15	12	12
$\rightarrow$ IMSiM	3	0	2 (+1)[2]	2	2	0

PhD students under supervision of our employees (present state):

- Michał Borowski (Iwona Chlebicka, Błażej Miasojedow)
- Michał Fabisiak (Piotr B. Mucha, Jan Peszek)
- Agata Lonc (Monika Piotrowska, Aleksandra Puchalska)
- Magdalena Szafrańska-Łęczycka (Urszula Foryś)
- +4 outside of UW

[2] Interdisciplinary Doctoral School

PhD students - defences 2024/25

- **Maja Szlenk** 2024 (with distinction)
  Applications of Various Compactness Methods in the Context of Compressible Fluid Mechanics
  (supervisors: Piotr B. Mucha, Ewelina Zatorska)
- **Łukasz Chomienia** 2024
  Partial Differential Equations on Low-Dimensional Structures
  (supervisor: Anna Zatorska-Goldstein)
- **Mateusz Dębowski** 2024
  Some Aspects of Molecular Mechanisms of the Cell Cycle and Diauxic Growth from a Mathematical Perspective
  (supervisors: Mirosław Lachowicz, Jacek Kubiak, Zuzanna Szymańska)
- **Sadokat Malikova** 2025
  Mathematical Analysis of Obstacle Approximation Strategies for Incompressible Flows
  (supervisors: Tomasz Piasecki, Piotr Krzyżanowski)

IDUB Thematic Research Programs 2024 - 2025

- **Bartosz Bieganowski**
  Variational and geometrical methods in partial differential equations
- **Iwona Chlebicka**
  Evolutionary PDEs
- **Tomasz Dębiec**
  Mathematical Biology – Analysis and Applications
- **Jacek Miękisz**
  Quasicrystals: mathematical physics, ergodic theory,and topology of nonperiodic structures

IDUB Thematic Research Programs 2024 - 2025

- **Piotr B. Mucha**
  Mathflows
- **Jan Peszek**
  KinMat
- **Agnieszka Świerczewska-Gwiazda**
  Hyperbolic conservation laws and fluid dynamics
- **Anna Zatorska-Goldstein**
  Geometric Analysis: Methods and Applications GAMA25

IDUB New Ideas (2023-2024)

3A

- Bartosz Bieganowski
- Tomasz Dębiec
- Jan Peszek
- Aleksandra Puchalska

3B

- Iwona Chlebicka
- Mirosław Lachowicz
- Tomasz Piasecki

Evaluation 2022–2025

The evaluation will consider **three criteria**:

- **I:** the scientific quality of the research activity,
- **II:** the financial outcomes of scientific research and development work,
- **III:** the impact of scientific activity on society and the economy.

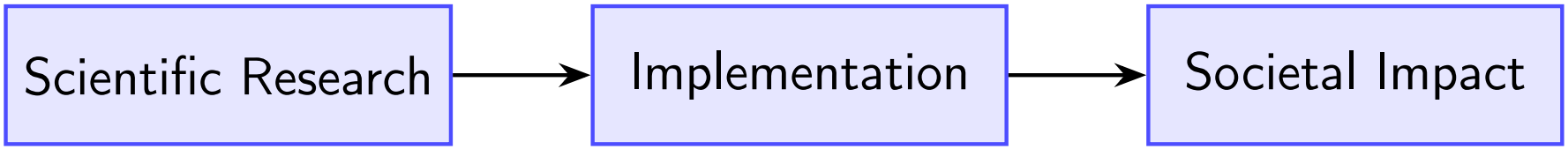
Evaluation 2022–2025

Regarding **Criterion I**, all current research and research-teaching staff at IMSIM have reported achievements. The issues stem from:

- administrative errors (e.g., failure to withdraw the declaration upon transfer to a teaching-only position),
- changes in regulations (e.g., external employees hired on fractional contracts), bureaucratic issues,
- grant-funded positions such as post-docs (e.g., poor outcome or long publication times),
- mistakes in the database (co-authors from other Polish universities!).

Please check at
https://www.mimuw.edu.pl/~os237720/pbn/
if the data are correct.

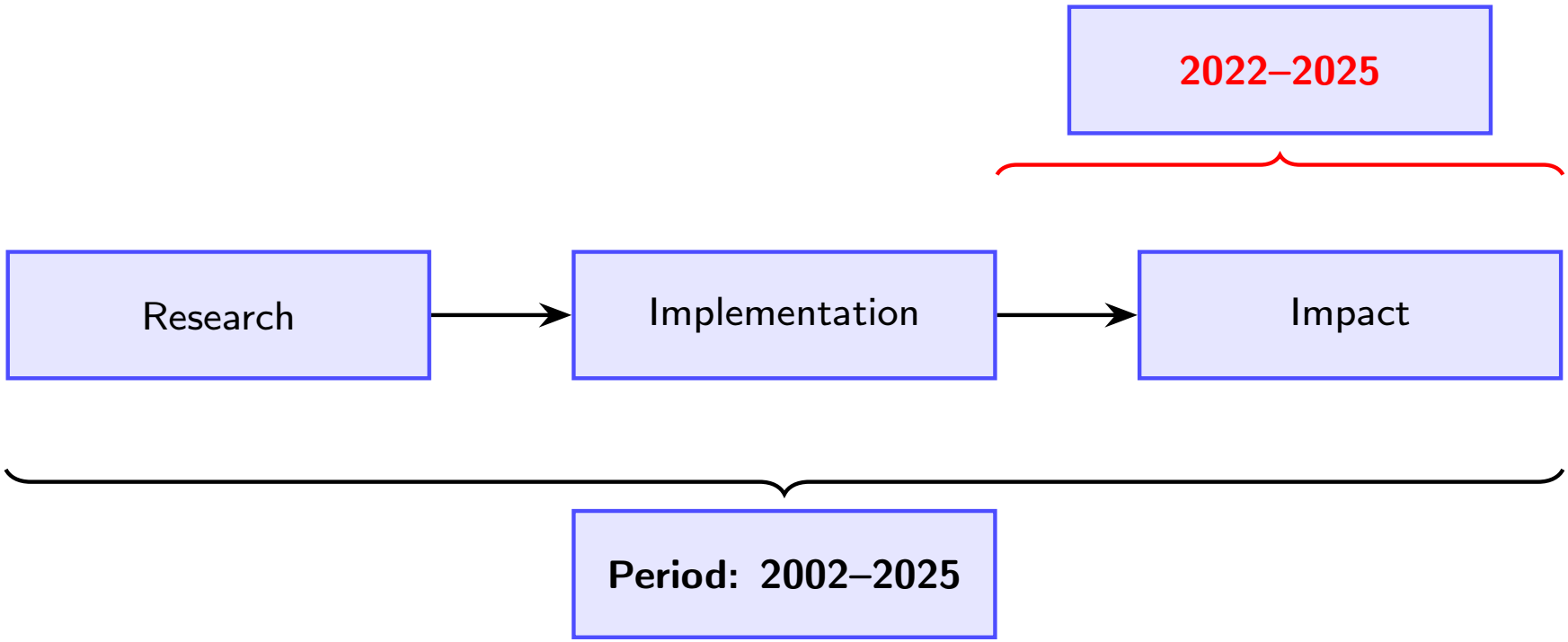
Evaluation - Criterion III



Implementation: practical application (new therapy, new algorithm), popularization (of the present research), popularization (historical research) based on the research conducted in the institution which can be proved.

Impact: has to be measured / confirmed. It has to appear outside of the scientific community.

Evaluation - Criterion III



Clarifications

Implementation is not a proof of the impact.
Proof of the research: scientific publications.
Proofs of the impact: measurements, confirmation by external sources.

Research and Teaching Bonuses 2024

Two types of salary bonuses:

- **Faculty bonus for research excellence** (awarded through faculty-wide competition), 1 450 / 2 900 PLN per month
- **Institute bonus** (for research or teaching excellence)
  1 quantum = 350 PLN per month $\times$ 12 = 4 250 PLN per year

Research bonuses – rules

- The rules for awarding faculty bonuses are defined in Dean's Regulation No. 3 of the Faculty of Mathematics, Informatics, and Mechanics dated May 11, 2021.
- Institute bonuses (quanta) are awarded according to excellence in research and teaching criteria which are formulated on the basis of those used in the periodic evaluations of Institute employees (access from the UW Google accounts (`@uw.edu.pl`)).
- Bonus for the Eilenberg Assistant Professor is paid from Institute quanta (min. 7 quanta).
- Function-holding staff does not obtain those bonuses.
- In 2024 IMSIM had 90 quanta to distribute among all employees excluding function-holding staff. We do not know yet the amount of quanta for 2025.

Faculty research bonuses small/large and quanta

	2021/22	2022/23	2023/24	2024/25
IMSiM applicants	22	18	20(19)	21
IMSiM awarded	8/6	5/6	12/3	13/3
IM awarded	12/9	8/11	13/8	12/9
total MIM awarded	30/30	24/33	38/26	44/23
IM quanta	167	165	173	172
IMSIM quanta	82	86	91	90

Institute funds 2024 (1/2)

The institute has some limited funds granted by the Dean.

Its main purpose:

a) Maintenance, repairs and replacement of computer equipment
b) Funding research activity (conferences, research visits etc) of employees without own grants, including teaching staff.

In the last few years b) was financed primarily through IDUB microgrants.

Institute funds 2024 (2/2)

category	costs (PLN)
total funds granted	20 000
conferences	20 398
hardware & software	1 253
total costs	21 651

Teaching Matters

Piotr Krzyżanowski

Obligatory courses

Obligatory courses

(Co-)coordinated at MIMUW:

Sem	Course	Field
1	*Mathematical analysis I.1*	MAT
2	*Algorithmics and programming in Python*	MAT
3, 4	*Mathematical analysis II.1* and *II.2*	MAT
4	*Ordinary differential equations*	MAT
4	*Ordinary differential equations w/lab*	MAT
4	*Computational mathematics*	MAT
5	*Statistics*	MAT
6 (4)	*Statistical data analysis*	MAT (BIOINF)
1, 2	*Math. analysis I.1* and *I.2*	INF
1, 2	*Math. analysis I.1* and *I.2, w/Mathematica*	INF
1	*Geometry with linear algebra*	INF
1, 2	*Calculus 1* and *2*	BIOINF
2	*Scientific computing*	BIOINF
4	*Optimization and game theory*	BIOINF
5	*Mathematical models in natural sciences*	BIOINF
5	*Statistics for MSEM*	MSEM

Obligatory courses

Coordinated at other faculties:

Sem	Course	Faculty
1	*Mathematics*	Biology
1	*Fundamentals of mathematics*	UCBŚ
3	*Fundamentals of statistics*	Geology

Elective courses

Number of elective courses running

	2019	2020	2021	2022	2023	2024
Regular	23	21	22	21	20	24
Monograph+lect.	9+2	9+2	6+5	8+1	11+3	10+1
Mono. seminars[3]	2	7	7	5	4	4

[3] Excl. master's or research seminars

Elective courses

Number of elective courses running

	2019	2020	2021	2022	2023	2024
Regular	23	21	22	21	20	24
Monograph+lect.	9+2	9+2	6+5	8+1	11+3	10+1
Mono. seminars[3]	2	7	7	5	4	4

[3] Excl. master's or research seminars

Proseminars

Number of students enrolled

	2019	2020	2021	2022	2023	2024
Biomath. & game th.	15	16	14	18	12	15
Diff. eq. nat. sci.	12	16	16	15	8	8
Mach. learning						15
Math. in action	17	13	14			
Num. meth.	12	10	16	20	16	14
Stoch. models bio.				14		11

	2019	2020	2021	2022	2023	2024
Total MIM	120	116	125	138	117	147
Total IMSiM	56	55	60	63	36	63
$\rightarrow$ submitted theses	32	34	33	30	24	

Number of students enrolled

	2019	2020	2021	2022	2023	2024
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Total MIM	120	116	125	138	117	147
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$\rightarrow$ submitted theses	32	34	33	30	24	

Master's seminars

Number of students enrolled

	2019	2020	2021	2022	2023	2024
PDEs & appl.	2	4	4	5	4	7
Math models bio. & soc.	5	6	3	5	9	9
Math models fin.	4	8	5	8	8	5
Stats & appl.	15	12	3	11	14	16
Num. meth.	4	6	5	3	8	11
Proteo. data anal.				13	17	20

Total number of students

	2019	2020	2021	2022	2023	2024
Master's sem. IMSiM[4]	30	36	20	32	43	48
→ submitted theses	13	7	7	7	7	

[4] Excl. *Proteo. data anal.*

Master's seminars

Number of students enrolled

	2019	2020	2021	2022	2023	2024
PDEs & appl.	2	4	4	5	4	7
Math models bio. & soc.	5	6	3	5	9	9
Math models fin.	4	8	5	8	8	5
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[4] Excl. *Proteo. data anal.*

Changes in teaching programmes in Mathematics

- Since 24/25
  - *Introduction to computer science* (1st sem)
    → *Algorithmics and programming in Python* (2nd sem)
    - **Use Python in labs!** (but mind the timeline)
  - *Introduction to computer science II* (2nd sem)
    → *Algorithms of discrete mathematics* (elective)
  - *Machine learning* (proseminar)
  - *Machine learning* (elective regular)
  - *Mathematical Analysis II.1* split into parallel lectures:
    → on multivariable calculus
    → on measure and integration theory

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    $\rightarrow$ on measure and integration theory

Changes in teaching programmes in Mathematics

- **From 25/26**
  - *Introduction to mathematics* (1st sem)
    $\rightarrow$ *Introduction to mathematics* (1st sem)
    $\rightarrow$ *Introduction to set theory* (2nd sem)
- **From 27/28**
  - new elective courses group: *Applications of mathematics in computer science* (3rd yr)
  - new short practical courses in IT, e.g. LaTeX, Mathematica... (semi-elective)

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  - *Introduction to mathematics* (1st sem)
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- **From 27/28**
  - new elective courses group: *Applications of mathematics in computer science* (3rd yr)
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Changes in teaching programmes in Mathematics

- **From 25/26**
  - *Introduction to mathematics* (1st sem)
    $\rightarrow$ *Introduction to mathematics* (1st sem)
    $\rightarrow$ *Introduction to set theory* (2nd sem)
- **From 27/28**
  - new elective courses group: *Applications of mathematics in computer science* (3rd yr)
  - new short practical courses in IT, e.g. LaTeX, Mathematica... (semi-elective)

In preparation

- From 26/27
  - *Mathematical analysis II.2* (4th sem)
    $\rightarrow$ differential forms $\rightarrow$ Fourier series
    $\rightarrow$ new elective course on tensor algebra *and* differential forms
- ZIP 2.0
- Double master's degree
  - Charles University
  - Heidelberg University
  - Sorbonne University

Course evaluation students' surveys

Published after semester's end

→ Check every October and every March!

1. Log in to usosweb.mimuw.edu.pl
2. Enter STAFF SECTION/DLA PRACOWNIKÓW tab
3. Click on Surveys results/Wyniki ankiet

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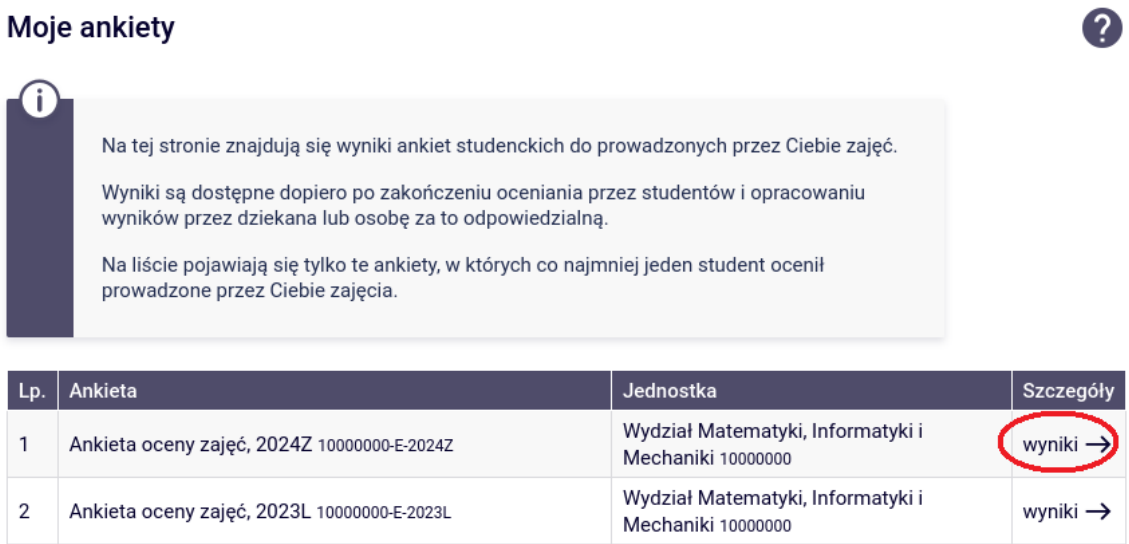

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4. Click on results/wyniki

Ankieta oceny zajęć, 2023Z 10000000-E-2023Z
Wydział Matematyki, Informatyki i Mechaniki 10000000

Lp.	Przedmiot	Cykl	Zajęcia	Szczegóły
1	Analiza numeryczna (1000-135AN)	2023Z	Ćwiczenia	wyniki
2	Analiza numeryczna (1000-135AN)	2023Z	Wykład	wyniki
3	Metody numeryczne (1000-215bMNU)	2023Z	Ćwiczenia	wyniki
4	Metody numeryczne (1000-215bMNU)	2023Z	Laboratorium	wyniki
5	Metody numeryczne (1000-215bMNU)	2023Z	Wykład	wyniki

Student's surveys 23/24

Best overall scores

- **Classes**
  - Norbert Mokrzański
    - *ODEs*
    - *ODEs w/lab*
  - Łukasz Rajkowski
    - *Statistics for MSEM*
    - *Probabilistic and graph models of causality*
  - Piotr Krzyżanowski
    - *Numerical methods* (INF)
- **Labs**
  - Bartosz Bieganowski
    - *ODEs w/lab*

Full list:
www.mimuw.edu.pl/pl/aktualnosci/najlepiej-oceniane-zajecia-ankiety-studenckie-w-roku-akademickim-20232024

ECMI Teaching Centre accreditation for MIM UW

ECMI = European Consortium for Mathematics in Industry

Aims:

- To promote and support the use of mathematical modelling, simulation, and optimization in any activity of social or economic importance.
- To educate Industrial Mathematicians to meet the growing demand for such experts.
- To operate on a European scale.

ECMI Teaching Centre accreditation

- acknowledges our applied/industrial mathematics programme conforms to the ECMI model
- students can apply for an **ECMI Certificate**:
  - addendum to Master's Thesis diploma

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Public outreach

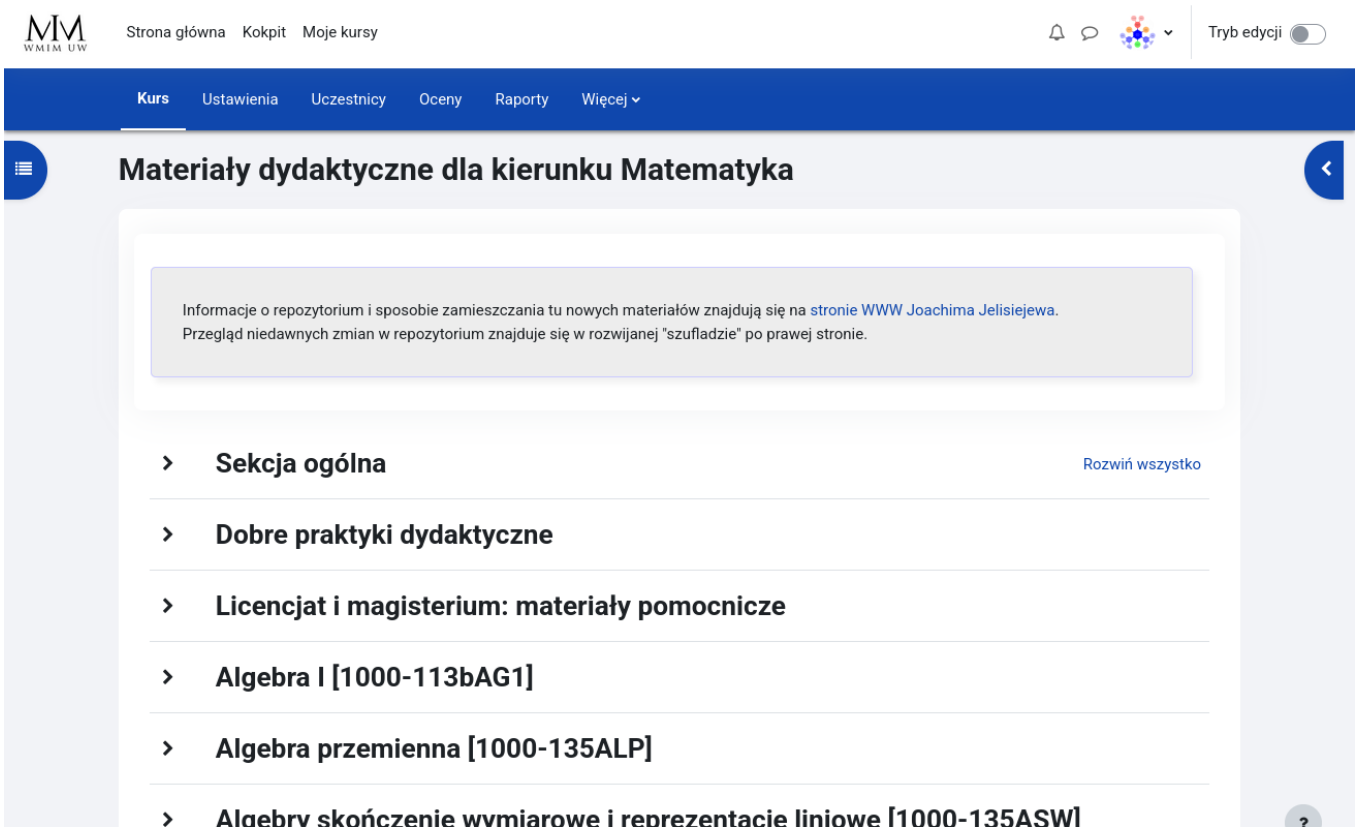
- Textbooks
  - P. Kiciak, *OpenGL i GLSL (nie taki krótki kurs) Wyd. II*, Własny Sumpt Autora (2024)
  - P. Krzyżanowski, *Metody numeryczne*, PWN (2024)
  - D. Strzelecki, B. Bieganowski et al. *Zbiór zadań z analizy i algebry edycja rozszerzona*, Wyd. Aksjomat (2024)
- *Delta* monthly
  - P. Kiciak (1)
  - G. Łukaszewicz (6)
  - Ł. Rajkowski (2), deputy editor-in-chief
- Competitions organization/planning/management:
  - B. Bieganowski
  - Ł. Rajkowski
  - M. Sierakowski
  - D. Strzelecki
  - W. Waluś
- Popular lectures
  - M. Lachowicz
  - Ł. Rajkowski
  - U. Skwara

Moodle repository

moodle.mimuw.edu.pl

Moodle repository ...with teaching materials!

moodle.mimuw.edu.pl/course/view.php?id=2171



Share yours: materialy@mimuw.edu.pl

Thank you for attention!