CURRICULUM VITAE
GUNNAR MATHIASON
AUGUST 2025

Personal:

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Education:

2002 - 2009	PhD, Computer Science, Department of Computer Science, University of Linköping, Sweden.
2001 - 2002	MSc, Computer Science, Department of Computer Science, University of Skövde, Sweden.
1998 - 2001	BSc, Computer Science, University of Skövde, Sweden. Course total PhD/MSc level: 106 hp ECTS, BSc level: 120 p/180 hp ECTS

Academic Employments:

2025-	Associate Professor, Dept. of Computer Science/ Dept. of Information Technology, School of Humanities and Informatics, University of Skövde, Sweden
2010 - 2025	Assistant Professor (sw. *Lektor*) and Docent (2022), Dept. of Computer Science/ Dept. of Information Technology, School of Humanities and Informatics, University of Skövde, Sweden *Research interests*: Data Science, Machine Learning, AI, Information fusion, Large-scale distributed data, Intelligent data analysis, Complex systems.
2007 - 2009	Guest Lecturer (*sw. Gästlärare*), Dept. of Computer Science, School of Humanities and Informatics, University of Skövde, Sweden
2002 - 2007	PhD Student (*sw. Doktorand*), Dept. of Computer Science, School of Humanities and Informatics, University of Skövde, Sweden *Topics*: Large-scale distributed real-time systems, management of large sets of distributed data, System scalability, Wireless sensor networks, Distributed sensor fusion.

Leadership:

2018/10 – 2021/05
Director of industrial research school IPSI (sv. Föreståndare).

2019/03 – 2021/05
Board of Research Education, member, Högskolan i Skövde.

2014/01 – 2017/04
Head of Division (Alpha) (sv. Avdelningschef), School of Informatics, University of Skövde, Sweden.

2011/04 - 2013/12
Department Chair (sv. Avdelningschef), Dept. of Informatics, School of Humanities and Informatics, University of Skövde, Sweden

2010/11 - 2011/03
Unit Coordinator (sv. Enhetskoordinator), Dept. of Computer Science, School of Humanities and Informatics, University of Skövde, Sweden

1992 - 1998
Software Development Projects, various projects. Software Quality Assurance Process, two implementation projects. SKF Engineering and Research Centre (The Netherlands), SKF Lidköping Machine Tools AB (Sweden)

Leadership Training, Experience and Achievements:

Leadership experience and achievements, in short:

- Recruitments for around 40-45 academic positions for School of Informatics and School of Humanities and Informatics, during 2011- 2017. Development of recruitment strategies.
- Annual assessment and salary review management 2011-2017.
- Overall responsibility of course planning and staffing 2011-2017, both for education and research projects. Development of course planning protocols and the setup of corresponding IT-support.
- Annual budget for School of Informatics (School turnover around 130 Msek), including Department of Informatics (2011-2013, 70 people) and Division of Alpha (2014 - 2017, 35 people).
- Development and expansion of Departments and Divisions: For the Division of Alpha from 20 (corresponding staff base, in 2011/03) to 35 people (in 2016/03), within AI and Data Science. Expansion mostly in the area of externally funded research. Also, the launch of Sweden's first master program in Data Science. Student retention development: from 60% to +80% student throughput.
- Internationalization, with the focus on staff recruitment and education program development.

Leadership training and mentors:

2011 - 2013	Anders Hedin (Training and mentoring)
2015 - 2017	Tomas Ärlemalm (Mentoring)
2014 - 2017	Katti Uhlin, Avonova (Training and mentoring)
2016 - 2016	Jane Johansson, VGR (Mentoring, *Samverkan om chefsskap i offentlig sektor*)
2011 - 2017	University of Skövde leadership program (Lectures)

Memberships:
ACM, IEEE (Senior member from 2024-08-09), SAIS

Refereed Publications:

Thesis:

G Mathiason, (2009) *Virtual Full Replication for Scalable Distributed Real-Time Databases*. PhD thesis, Linköping University, Department of Computer and Information Science, The Institute of Technology. ISBN 978-91-7393-503-6

Journals:

G Mathiason, J Bae, A Karlsson (2025) *Developing a process-informed Deep Learning Model for Time-Series in Steel Production*, IEEE Transactions on Industrial Informatics, (in final preparation)

N Ståhl, G Mathiason, D Alcacoas (2021) *Using Reinforcement Learning for Generating Polynomial Models to Explain Complex Data*, SN Computer Science.

Steinhauer, A. Åhlén, T. Helldin, A. Karlsson, and G. Mathiason, *Increased Network Monitoring Support through Topic Modelling*, IJICTA, vol. 6, no. 1.

J Bae, Y Li , N Ståhl , G Mathiason , N Kojola (2020) *Using machine learning for robust target prediction in a Basic Oxygen Furnace system*, Metallurgical and Materials Transactions B.

N Ståhl, G Falkman, A Karlsson, G Mathiason, J Boström (2019) *Deep reinforcement learning for multiparameter optimization in de novo drug design,* Journal of Chemical Information and Modeling.

J Steinhauer, T Helldin, G Mathiason, A Karlsson (2019) *Topic Modeling for Anomaly Detection in Telecommunication Networks,* Journal of Ambient Intelligence and Humanized Computing, Journal of Ambient Intelligence and Humanized Computing.

N Ståhl, G Mathiason, G Falkman, A Karlsson (2019) *Using recurrent neural networks with attention for detecting problematic slab shapes in steel rolling*, Journal of Applied Mathematical Modelling.

N Ståhl, G Falkman, A Karlsson, G Mathiason, J Boström (2018) *Deep Convolutional Neural Networks for the Prediction of Molecular Properties: Challenges and Opportunities Connected to the Data*, Journal of integrative bioinformatics.

J. Rose, M. Berndtsson, G. Mathiason, P. Larsson (2017) *The Advanced Analytics Jumpstart: definition, process mode*l, best practices, JISTEM-Journal of Information Systems and Technology Management, vol. 14, no. 3, pp. 339–360.

Conference publications:

N. Ståhl, G. Mathiason, and J. Bae (2022) *Utilising Data from Multiple Production Lines for Predictive Deep Learning Models*, in Distributed Computing and Artificial Intelligence (DCAI), Volume 1: 18th International Conference, Cham, pp. 67–76.

J Bae, G Mathiason, Y Li, N Kojola, N Ståhl (2020) *Understanding Robust Target Prediction in Basic Oxygen Furnace;* The 2nd International Conference on Industrial Engineering and Industrial Management (IEIM 2021).

N Ståhl, G Mathiason, D Alcaçoas (2020) *Using Reinforcement Learning to Build Interpretable Models from Complex Data*; Machine Learning (Mach, DS Computer Science Journal), submitted

N Ståhl, G Falkman, A Karlsson, G Mathiason (2020) *Evaluation of uncertainty quantification in deep learning*, International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU).

N Ståhl, G Falkman, A Karlsson, G Mathiason, J Boström (2019) *Improving the Use of Deep Convolutional Neural Networks for the Prediction of Molecular Properties*, Conf. Practical Applications of Computational Biology and Bioinformatics, 12th International Conference, Springer, 2019, Vol. 803, s. 71-79.G Mathiason (2018) *Production data analysis for process refinement in hot rolling*, Abstract submission, SweDS2018 (The 6th Swedish Workshop on Data Science).

N Ståhl, G Falkman, A Karlsson, G Mathiason, J Boström (2018) *Improving the Use of Deep Convolutional Neural Networks for the Prediction of Molecular Properties* International Conference on Practical Applications of Computational Biology.

H J Steinhauer, T Helldin Tove, G Mathiason (2018) *Spatio-Temporal Awareness for Wireless Telecommunication Networks*, Working Papers and Documents of the IJCAI-ECAI-2018 Workshop on Learning and Reasoning: Principles & Applications to Everyday Spatial and Temporal Knowledge, s. 49-50.

H J Steinhauer, T Helldin, G Mathiason, A Karlsson (2018) *Anomaly detection in telecommunication networks using topic models*, Modeling Decisions for Artificial Intelligence, 15th International Conference, MDAI 2018, Mallorca, Spain, October 15–18.

A Karlsson, D Duarte, G Mathiason, J Bae (2018) *Evaluation of the Dirichlet Process Multinomial Mixture Model for Short-Text Topic Modeling*, 6th International Symposium on Computational and Business Intelligence (ISCBI 2018).

J Bae, J Havsol, M Karpefors, A Karlsson and G Mathiason (2018) *Short Text Topic Modeling to Identify Trends on Wearable Bio-sensors in Different Media Types*, 6th International Symposium on Computational and Business Intelligence (ISCBI 2018).

T Helldin, H J Steinhauer, A Karlsson, G Mathiason (2018) *Situation awareness in telecommunication networks using topic modeling*, 2018 21st International Conference on Information Fusion (FUSION 2018), 549-556.

N. Ståhl, G. Falkman, G. Mathiason, and A. Karlsson (2018) *A self-organizing ensemble of deep neural networks for the classification of data from complex processes*, in 17th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU 2018).

H. J. Steinhauer, T. Helldin, A. Karlsson, and G. Mathiason, *Topic modeling for situation understanding in telecommunication networks*, in 2017 27th International Telecommunication Networks and Applications Conference (ITNAC), 2017, pp. 1–6.

Y. Atif, S. Sergis, D. Sampson, and G. Mathiason, *A Cyberphysical Learning Approach for Digital Smart Citizenship Competence Development,* in Proceedings of the 26th International Conference on World Wide Web Companion, Republic and Canton of Geneva, Switzerland, 2017, pp. 397–405.

H. J. Steinhauer, A. Karlsson, G. Mathiason, and T. Helldin, *Root-cause localization using Restricted Boltzmann Machines*, in 2016 19th International Conference on Information Fusion (FUSION), 2016, pp. 248–255.

J. Ding, B. Lindström, G. Mathiason, and S. F. Andler, *Towards Threat Modeling for CPS-based Critical Infrastructure Protection*, in Proceedings of the International Emergency Management Society (TIEMS), 22nd TIEMS Annual Conference : Evolving threats and vulnerability landscape: new challenges for the emergency management, vol. 22, 2015.

Mathiason, G., Andler, S.F. and Kang, W. (2008) *Exploring a Multi-Tiered Whiteboard Infrastructure for Information Fusion in Wireless Sensor Networks*, Abstract submission, in Skövde Workshop on Information Fusion Topics (SWIFT 2008). ISBN 978-0-7695-3330-8.G.

Mathiason, S. F. Andler, and S. H. Son, *Virtual Full Replication for Scalable and Adaptive Real-Time Communication in Wireless Sensor Networks*, in 2008 Second International Conference on Sensor Technologies and Applications (Sensorcomm 2008), 2008, pp. 55–64.

G. Mathiason, S. F. Andler, S. H. Son, and L. Selavo, *Virtual Full Replication for Wireless Sensor Networks*, in Proceedings of the 19th IEEE-ECRTS (WiP), 2007, pp. 45–48.

G. Mathiason, S. F. Andler, and S. H. Son, *Virtual Full Replication by Adaptive Segmentation*, in Proc. 13th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA), 2007, pp. 327–336.

G. Mathiason, S. F. Andler, and D. Jagszent, *Virtual Full Replication by Static Segmentation for Multiple Properties of Data Objects*, in Proc. of RTIS 2005, 2005, pp. 11–18.

G. Mathiason and S. F. Andler, *Virtual Full Replication: Achieving Scalability in Distributed Real-Time Main-Memory Systems*, in Proc. 15th ECRTS (WiP), 2003, pp. 33–36.

Refereed book chapters:

Andler, S.F., Brohede, M., Gustavsson, S., and Mathiason, G. (2007) *DeeDS NG: Architecture, design, and sample application scenario,* in I. Lee, J. Y-T. Leung, and S. H. Son, editors, *Handbook of Real-Time and Embedded Systems*, pages 29-1 – 29-20. CRC Press. ISBN 1-58488-678-1, ISBN 978-1-58488-678-5.

Projects:

2025 -	Jubileumsdoktorand. (KK Stiftelsen). Funding of a PhD student in Games/AI utilization. Co-supervision.
2024 - 2025	MAiA: Feasibility study - Material Property Characterization Platform. Metals and Minerals prestudy (VINNOVA, Impact Innovation). Partners: Scania, Gestamp, Swerim. WP leader.
2024 - 2025	Paving the way towards digital materials selection using AI and physical models (DMS-AI). Partners: Metals and Minerals prestudy (VINNOVA, Impact Innovation). Partners: Alleima, Höganäs, Scania, SSAB, Swerim. WP leader.
2025 - 2028	ProcTwin. HORIZON. SSAB, Celsa (GSW, Barna), BFI, Swerim, Cartif, Prevas, Aquiles etc (12 partners). submitted 2024-02-27. Budget: 4.8 MEUR (University of Skövde 590 kEUR). Call: HORIZON-CL4-2024-TWIN-TRANSITION-01-44. WP leader.
2023-2025	Shiftlabs, Swedish network for Sustainable Digitalisation and Human-Centric Factory Transformation. HORIZON, DIGITAL-2021-EDIH-01. Member.
2023	AI-based real-time distributed traffic risk assessment (LARA). VINNOVA: SAFER Prestudy. Prestudy project to build an FFI application. Partners: Volvo Cars, SmartEye. PI.
2023	Integrerad modellering för en hållbar och optimerad stålprocess (ProcTwin). VINNOVA planning project for an EU funding application in Feb 2024, call: "HORIZON-CL4-2024-TWIN-TRANSITION-01-44" Partners: Swerim, Alleima, Prevas. Project member.
2021 - 2024	INSITE-X: AI-based analysis of machine dynamics. Writing application and project leader, 6.5 msek (VINNOVA/PiiA 50%, 3.25 msek), Ovako (1.62 msek), Outokumpu (1.62 msek), Högskolan i Skövde. PI.
2021 - 2026	Funding for an *Industrial PhD student in Smart Industry Research School*. KK foundation funding for PhD student salary (150 kkr/yr by KK, major salary funding from SSAB as in kind), advisor time, and research school participation.

2019 - 2020	*SIP* (Strategic Investment Program). Application project leader. Development of KK Profile application in 2020. (HiS 790 000 kr). PI.
2018 - 2021	*Swedish Metal*. Writing application and project leader, 5.8 msek (KK 50%, 2.8 msek), Sandvik (1.4 msek), SSAB (1.4 msek), Högskolan i Skövde. PI.
2017 - 2018	*DATAFLOW*. Writing application and project leader. 1.9 msek (Vinnova 1.5 msek), Outokumpu (0.4 msek), Advectas, Högskolan i Skövde. PI.
2018 - 2018	*PET* (KK 50%). AstraZeneca, Recorded Future, Högskolan i Borås, Högskolan i Skövde. Project member.
2015 - 2020	*BISON Synergy* (KK). Writing application and project member. Develop common processes for Big Data Analytics in three domains (Telecom, Medical, and Business Intelligence). Project member.
2012 - 2016	*Kraftsamling Smarta Nät* (VGR), defining project applications, collaborations and networking for strengthening knowledge, development and research projects for Smart Grids in West Sweden (Funded 2012-2016, 1.3 msek VGR). Focus on Information Fusion for energy efficiency improvements.
2009 - 2012	*Information Fusion for Energy Efficiency* (PI). Participants are: Three energy companies, GSP Project Arena, and four research groups of University of Skövde. Funded by Västra Götalandsregionen.
2010	University of Skövde, *Strategic research project funding* (118 kSEK)
2008	*Wireless Sensor Network Testbed Project* (PL), with Leo Selavo, University of Riga, and Woochul Kang, University of Virginia, US. Skövde. Funded by University of Skövde 200 ksek. 2007 University of Skövde, *Strategic research project funding* (70 kSEK)
2007	*Visiting scholarship at University of Virginia*, Feb-June, 2007.

Recent Applications for Funding:

2024	Jubileumsdoktorand. (KK Stiftelsen). Funding of a PhD student in Games/AI utilization. Accepted.
2024	MAiA: Feasibility study - Material Property Characterization Platform. Metals and Minerals prestudy (VINNOVA, Impact Innovation). Partners: Scania, Gestamp, Swerim. Accepted.
2024	Paving the way towards digital materials selection using AI and physical models (DMS-AI). Partners: Metals and Minerals prestudy (VINNOVA, Impact Innovation). Partners: Alleima, Höganäs, Scania, SSAB, Swerim. Accepted.
2024	ProcTwin. HORIZON EU funding application. Partners: SSAB, Celsa (GSW, Barna), BFI, Swerim, Cartif, Prevas, Aquiles etc (12 partners). submitted 2024-02-27. Call: HORIZON-CL4-2024-TWIN-TRANSITION-01-44. Accepted.
2023	*LARA*. VINNOVA/SAFER pre-study. Accepted.
2023	*ProcTwin pre-study*. VINNOVA planning project for an EU funding application. Accepted.
2021	*AIMe*. VINNOVA SIP PiiA, Partners: Swerim, School of Engineering/HiS, 3 msek, 50/50%). Companies: Exmet AB, Gränges AB, Hydro Building Systems Sweden AB. (Submitted 2021-11-19). Expert member. Accepted.
2021	*Trustworthy AI by Design (TIDE)*, KK Profile. Partners: School of Bioscience/HiS. Companies: SSAB, AstraZeneca, Saab Surveillance, Saab Aeronautics, HM. (Submitted 2021-12). Sub project leader. Rejected.
2020	*INSITE-X: AI-based analysis of machine dynamics.* PI. (VINNOVA SIP PiiA, 6.5 msek, 50/50, approved). Companies: Outokumpu, Ovako. Accepted. PI.
2020	*TwinMachine (Digital Machine Twins from online-data)*. PI. (KK-HÖG application, rejected). Companies: Outokumpu, Ovako. Accepted. PI
2020	*Trustworthy AI*. Application participant. (KK-Profile application, rejected).

2019	*DYNAMIC: AI-baserad tolkning av dynamiskt maskinbeteende ur högupplöst produktionsdata*. PI. (VINNOVA SIP PiiA, 6.4 msek, 50/50). Rejected. PI
2019	*DYNAMAC: Interpreting DYNAmic MAChine Behaviour in High-Resolution Production Data*, with Ovako and Outokumpu. PI. (KK HÖG/Synergy, rejected).
2019	*AI- FUSION.* Application participant (KK Profile). Cancelled. WP-PI
2018	SII Soft Interfaces - Kompetenscentrum 2020, Högskolan i Borås. (cancelled).
2018	*Smart Steel*, idea competition for priming of funding. SSAB.
2018	*Strategic Investment program funding: KK profile* 2019-2020 (granted). PI.
2018	*Strategic Investment program funding: STOMME* 2019-2020 (granted). Participant.
2017	*Swedish Metal,* with Sandvik, SSAB. (KK HÖG 2.8 msek/SSAB, Sandvik 2.8 msek, 2018-2021, granted). PI.
2017	*Dataflow,* with Outokumpu , Jernkontoret (VINNOVA 1.5 msek, granted). PI.
2017	*SlabTwin*, with SSAB (VINNOVA 5 msek, rejected)
2017	*ModANalys*, with Jernkontoret (VINNOVA 1.5 msek, application postponed by Jernkontoret)
2017	STEOLF-EE (EU, rejected)
2016	*Elvira*, (EU ISF, accepted, application development but not project participant)
2016	*SmartAGRI*, with JTI, Lantmännen, SLU, etc, (Tillväxtverket, rejected)

Academic Service:

2024	Interview: "Industrial usage of AI", "P1 Vetenskapsradion" (Swedish National Radio SR, Science News Group). (Dec 15th)
2024	Invited speaker: "What is AI, actually?", The SWARMA network of Swedish Universities' research communicators. (Oct 24th)
2024	Invited speaker: "What is AI, actually?". Skövde Municipality leadership team, KSAU. (Oct 23th)
2024	Interview: "Bergsmannen", journal for the steel industry, "The Future of AI in Steel Production" (Sep).
2024 -	ASSAR research council member.
2024	Invited speaker, Vinnova/Metalliska Material: "Artificial Intelligence today for steel industry applications" (March 13th).
2024	Invited speaker ML AI day, "AI in the steel industry", Jernkontoret (Feb 20th).
2023	PhD Thesis Committee (Deputy member) for Aitor Iriondo Pascual, University of Skövde. Title: "Simulation-Based Multi-Objective Optimization of Productivity and Worker Well-Being". Defense: Dec 21th, 2023.
2023	Internal reviewer of KK-HÖG Application in "PRUNUS II: Predictive maintenance uses machine condition monitoring", Högskolan i Gävle.
2023	PhD Thesis Committee (Deputy member) for Henrik Smedberg, University of Skövde. Title: "Knowledge Discovery for Interactive Decision Support and Knowledge-Driven Optimization". Defense: Sep 27th, 2023.
2023	Reviewer: IEEE Transactions on Industrial Informatics (Journal), "A Novel Method for Missing Data Reconstruction in Smart Grid Using Generative Adversarial Networks".
2023	Invited speaker, Samforsk/Vinnova/Metalliska Material:"Big data, artificiell intelligens och prediktion som stöd för klimatomställning", (March 15th)
2022	Invited speaker, Hackathon at Högskolan i Skövde/Assar/Volvo. "Where is AI heading now?"
2022	Reviewer: Nature Communications (Journal), "Substructure Mask Explanation (SME): an intuitive graph neural network explanation approach for mining structure-activity information from molecular property prediction models".
2022	Reviewer: IEEE CoG2022 (Conference on Games), "Elastic Monte Carlo Tree Search with State Abstraction for Strategy Game Playing".

2021	PhD Thesis Committee (as External reviewer and *opponent*) for Sasan Barak, Viva Voce seminar, Lancaster University. Title: "Meta-learning for Forecasting Model Selection". Defense: Nov 9th, 2021.
2021	Invited speaker, The B2B Forum on SmartIndustry: "Lessons learnt from AI use cases in Swedish steel industry", Jan 21, 2021 (cancelled due to illness).
2020	Invited speaker, EIT Machine Learning Steel Simulation Webinar: "Applied machine learning in industry", Dec 10, 2020
2020	Internal reviewer of KK-HÖG Application in "Data-driven Maintenance Prediction", Högskolan i Gävle.
2020 -	Reviewer: High Temperature Materials and Processes (Journal), "A review of end-point carbon control for BOF steelmaking process".
2019/01-2019/09	Development of new research agenda for the "Vinnova SIP Metalliska Material" research program by VINNOVA. (Jernkontoret, funded at 20% of full time during 6 months).
2019/01-	Adjunct position at the Board of the TO60 program for digitalization, Jernkontoret. (Renewed for 2020, 2021, 2022, 2023, 2024, 2025).
2019	Invited talk: Järnverksföreningen: "AI inom stålindustrin" (Mars)
2019	Series of invited talks related to AI usage in industry: VINNOVA SIP conference "Metalliska Material": AI as enabler, now, and as a strategy forward, March 6, 2019; Jernkontoret: Användning av AI i industrin. Tema seminarium: "AI, Big data och digitalisering" (Järnverksföreningen), Jan 25, 2019.
2018-	Reviewer: Journal of Applied Mathematical Modeling (Journal), "Support Vector Representation Machine for superalloy investment casting optimization".
2015	Modeling Decisions for Artificial Intelligence (MDAI) 2015, organizing committee.
2009, 2010	Member of the Technical Programme Committee, SENSORCOMM'09 and SENSORCOMM'10.
2008	Member of the Programme Committee, JRWRTC'08, as part of RTNS'08, Rennes, France.

PhD Students:

2025 -	New PhD student, Project ProcTwin (main supervisor)
2025 -	New PhD student, KK Jubileumsdoktorand (Games/AI)
2021/04 -	Michael Stockman (main supervisor)
2018/09 – 2020/12	Yurong Li (main supervisor)
2016/04 – 2021/05	Niclas Ståhl (co-supervisor)

Courses:

2004, 2011	Courses in Pedagogy (15 ECTC)
2012	Course: Supervision of PhD students (Sw. "Utbildning i forskarhandledning")

Teaching:

Course Responsibility and Examiner

2015 - 2016, 2022-	Big Data Programming (Data Science Master, incl course development)
2022 -	Introduction to Data Science.
2002 - 2014	Software Engineering (incl course development)
2010 - 2011	Program Chair, Computer Science study program (program development)

2010 - 2012	Game Development Project, Design/Programming courses
2005 - 2012	Software Engineering – Game Development
2009 - 2010	Algorithms and Data Structures

Lecturing

2015 -	Big Data Programming
2002 - 2014	Software Engineering,
2010	Distributed Systems
2002 - 2010	Distributed Real-Time Systems
2009 - 2010	Algorithms and Data Structures
2009	Web Programming
2005 - 2012	Software Engineering – Game Development

Dissertation supervision

2002 - current	Main supervisor and Examiner, at both MSc and BSc levels, final year projects.

Thesis supervision titles in 2024:

Defect Detection in Aluminium Microscopic Images: Leveraging Domain Knowledge for Feature Extraction and Classification, Abed Al Kader Al Bakkour.
Defect Detection in Betaguard Yellow Sealing of Volvo Car Battery Lids Using Advanced Computer Vision and Machine Learning Techniques, Bincy Babu.
Lazer Brazed Defect Detection Using Transfer Learning, Georgios Kokolakis.
Classification of microscopic aluminium inclusions using machine learning techniques and generative methods, Mohamed Rizny Mohamed Mubarak.
Multivariate Time Series prediction for endpoint prediction of temperature, phosphorus, and carbon in the Basic Oxygen Furnace, Muhammad Usman.