

Dr. Peet Cremer

* 27/01/1988

🏠 Transistorfaret 9, 1396 Billingstad, Norway | 📞 +47 917 42 339

✉️ peet.cremer@gmail.com | in Peet Cremer | 📧 @PeetCremer | 📄 Publication list

AI Technical Leader with deep expertise in machine learning theory and enterprise AI strategy. Combines Statistical Physics foundation with proven experience scaling engineering teams of 18+ developers and architecting production AI systems. Currently driving enterprise adoption of cutting-edge AI development tools across 100+ engineers while maintaining hands-on technical expertise. Seeking technical leadership roles to guide organizations through AI transformation.



🏆 KEY TECHNICAL ACHIEVEMENTS

- 🏆 Led enterprise adoption of advanced AI development tools (Cursor, Gemini Code Assist) across 100+ developers with reported significant productivity gains
- 🏆 Pioneered application of computer vision algorithms to automotive radar perception, resulting in 7+ patents
- 🏆 Scaled engineering organization from 5 to 18 developers with only 2 customer-impacting incidents over 2 years
- 🏆 Architected production ML systems for industrial knowledge graphs serving enterprise-scale data platforms
- 🏆 7 peer-reviewed publications in Statistical Physics with direct applications to modern ML optimization

👛 WORK EXPERIENCE

Principal Engineer – Atlas AI

🏢 COGNITE (Oslo, Norway)

📅 02/2025 - today

Strategic Role Transition: Moved from engineering management to hands-on technical leadership to drive AI innovation during this pivotal transformation period. Leading technical strategy for AI evaluation frameworks and enterprise AI adoption.

- **Enterprise AI Strategy:** Architected organization-wide adoption of cutting-edge AI development tools (Cursor, Gemini Code Assist), expanding usage across 100+ engineers with teams reporting weeks-to-days productivity improvements
- **AI Evaluation Innovation:** Designing comprehensive evaluation frameworks for industrial AI agents and NLP tools interfacing with Cognite's data platform
- **LLM Technical Leadership:** Led benchmarking of state-of-the-art models (Anthropic, OpenAI, Google, DeepSeek) for industrial knowledge graph applications, directly informing Atlas AI architecture decisions
- **Cross-functional Collaboration:** Coordinated with Legal, Security, and Procurement teams to ensure compliant, scalable AI implementation across engineering organization

Recognized by CEO Girish Rishi for contributions to AI tooling strategy in company-wide communications and LinkedIn posts.

Senior Director of Engineering

🏢 COGNITE (Oslo, Norway)

📅 02/2024 - 2/2025

Strategic engineering leadership role combining organizational growth with AI initiative development. Gained executive perspective on enterprise AI transformation while maintaining technical involvement.

- **Strategic Expansion:** Designed and executed hiring strategy for Cognite's India Center of Excellence, establishing staffing plans and engineering operations for 20+ roles (all successfully filled)
- **Engineering Leadership:** Managed 10-15 developers across data integration, connectivity, and AI initiatives during critical company scaling phase
- **Product Strategy:** Collaborated on Contextualization services roadmap, aligning technical architecture with business objectives
- **Technical Architecture:** Provided strategic guidance on data platforms, ML systems, and engineering workflows

Director of Engineering

🏢 COGNITE (Oslo, Norway)

📅 02/2023 - 02/2024

Engineering management role focused on operational excellence and team scaling. Successfully managed rapid growth while maintaining service reliability and team satisfaction.

- **Operational Excellence:** Maintained only 2 customer-impacting incidents across Diagram Parsing, Annotations, and Entity Matching services over 2 years
- **Team Health Leadership:** Transformed struggling team from red-yellow to yellow-green health metrics by implementing support triage processes and reducing stress from direct customer escalations
- **Rapid Scaling:** Successfully grew from 1 team (5 developers) to 3 teams (18 developers) while maintaining delivery commitments
- **Technical Focus:** Led teams specializing in contextualization of industrial data, data-driven troubleshooting applications, and parsing of engineering diagrams

Senior Machine Learning Engineer and Tech Lead

🏢 COGNITE (Oslo, Norway)

📅 08/2021 - 02/2023

Technical leadership role building production ML systems for industrial data contextualization. Combined hands-on development with cross-functional team leadership.

- Led cross-functional team of 5 software/ML engineers implementing intelligent algorithms for industrial knowledge graph construction
- Architected and maintained microservices deploying ML algorithms in SaaS environment, including vector similarity services and annotation APIs
- Created data infrastructure capabilities enabling advanced graph queries and industrial reality interactions

AI Lead Developer

APTIV (Wuppertal, Germany)

12/2020 - 07/2021

Technical innovation leadership in automotive AI applications. Combined deep ML expertise with practical deployment experience.

- Led planning and execution of ML and data infrastructure projects for automotive perception tasks
- Designed AI solutions for automotive applications, guiding software and hardware integration into test vehicles
- Contributed to significant innovation pipeline, resulting in 7 patents and 1 publication focused on novel radar perception algorithms

Software Development Expert

APTIV (Wuppertal, Germany)

07/2017 - 12/2020

Technical Innovation: Pioneered application of computer vision algorithms to automotive radar data, creating complete ML pipeline from data collection to production deployment.

- Novel AI Application: Led breakthrough work applying vision-based perception algorithms to automotive radar, using LiDAR as reference sensor and creating high-quality training datasets
- Data Platform Leadership: Built comprehensive data platform for automotive sensor data storage and retrieval, including sophisticated recording tools and labeling pipelines
- ML Infrastructure: Established microservice architecture automating AI workflows, from data augmentation to model training and deployment
- Technical Mentorship: Supervised Master's thesis on GANs for automotive data style transfer, demonstrating knowledge transfer capabilities

EDUCATION

Ph.D., Theoretical Soft Matter Physics

University of Düsseldorf

2013 - 2017

Strategic Foundation for AI Leadership: Deep theoretical understanding of statistical systems, numerical optimization, and mathematical modeling that directly applies to modern ML challenges.

- Dissertation: Mesoscale modeling of magnetic elastomers and gels using finite element methods and density functional theory
- 7 peer-reviewed publications demonstrating research depth and scientific communication skills
- Expertise in numerical simulations and optimization algorithms foundational to current ML work

M.Sc. Physics (GPA: 1.1/4.0)

University of Düsseldorf

2012 - 2013

Focus: Soft Matter, Statistical Physics. Master thesis on "Emergent states in active systems" published in peer-reviewed journal, demonstrating early research impact and theoretical depth.

B.Sc. Physics (GPA: 1.2/4.0)

University of Düsseldorf

2008 - 2012

Strong foundation in mathematical modeling and computational physics. Bachelor thesis published as journal article, showing consistent research excellence from early career.

TECHNICAL EXPERTISE

Core Programming

Python (Expert, 10+ yrs)

C++ (Expert, 10+ yrs)

Rust (Advanced, 2 yrs)

TypeScript (Advanced, 2 yrs)

AI/ML Specialization

Statistical Physics Theory

PyTorch (2+ yrs)

TensorFlow (2+ yrs)

LangChain/RAG

Vector Databases

Enterprise AI Strategy

Model Evaluation

Data Science Foundation

NumPy/SciPy (Expert)

Scikit-learn (2+ yrs)

Statistical Analysis

Numerical Simulations

Mathematical Modeling

Engineering Leadership

Technical Team Leadership

AI Strategy Implementation

Cross-functional Collaboration

System Architecture

Production ML Systems

Infrastructure & Tools

Docker

Kubernetes

PostgreSQL

MongoDB

Azure

GCP

FastAPI

Microservices

Linux

TEACHING & KNOWLEDGE SHARING

Lecturer on Artificial Intelligence

University of Wuppertal, Germany

10/2020 - 04/2021

Designed and delivered university-level AI curriculum demonstrating ability to distill complex ML theory into teachable concepts.

- Created lectures and coding exercises on Numerical Optimization (ADAM algorithms), Evolutionary Algorithms, and Support Vector Machines
- Collaborated with industry colleagues to bridge academic theory with practical applications

Co-Organizer, NorwAI 2022 Hackathon

NTNU Trondheim, Norway

08/2022 - 10/2022

Led technical organization of Data Science hackathon, including dataset curation, task definition, student supervision, and contribution evaluation.

🏆 RECOGNITION & PATENTS

- 🏆 7+ patents in automotive AI applications, focusing on novel radar perception algorithms
- 🏆 Best Poster presentation at 15th German Ferrofluid Workshop, Rostock (2015)
- 🏆 DAAD scholarship "RISE in North America" for research internship at Yale University (2010)
- 🏆 Multiple CEO recognitions for AI tooling strategy contributions at Cognite

⚙️ TARGET ROLES & KEYWORDS

Seeking: Staff Engineer, Principal Engineer, Technical Lead, AI Architect, Technical Director roles at technology companies with strong engineering culture. Open to hybrid remote positions in Norway or full remote opportunities.

Specializations: AI Strategy, Machine Learning Architecture, Technical Leadership, Engineering Excellence, Enterprise AI Transformation, Industrial AI Applications, Team Scaling, Production ML Systems.

Languages

German (native)

English (C1)

Norwegian (B2)

French (A2)