Dr. Peet Cremer

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AI Technical Leader with deep expertise in machine learning theory and enterprise AI strategy. Combines Statistical Physics foundation with proven experience scaling engineering teams (up to 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. Delivered external benchmark report providing industry insights on LLM performance for industrial AI applications
- **Cross-functional Collaboration**: Coordinated with Legal, Security, and Procurement teams to ensure compliant, scalable AI implementation across engineering organization

Recognized by CEO Girish Rishi in LinkedIn posts highlighting contributions to AI tooling strategy and engineering innovation.

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. Contributed to successful inauguration of India Center of Excellence supporting Cognite's global expansion strategy
- **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 (see publication list) 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 (see publication list) 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[a]) — University of Düsseldorf — 2012 - 2013

[a] German grading system: 1.0 (best) to 4.0 (worst)

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
Languages	German (native) · English (C1) · Norwegian (B2) · French (A2)

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.