

# Vladimir Presnov

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## 教育背景

昆山杜克大学 (DKU) & 杜克大学 (Duke University) 双学位项目 2026 届 (12 月)  
工学学士 (B. Eng.), 材料科学; 物理方向 (昆山杜克大学) 苏州, 中国  
理学学士 (B. S.), 跨学科研究: 材料科学; 物理 (杜克大学) 达勒姆, 美国

- GPA: 3.504/4.0; 院长名单 (Dean's List): 2022 年秋季、2023 年春季、2023 年秋季、2024 年春季; 气候与可持续发展委员会本科生代表; 校园可持续发展报告 - 能源组负责人

## 工作经历

Ruhlamat 09/2025-11/2025  
商务拓展实习生, 市场部 (兼职) 苏州, 中国

- 为客户撰写并完成 5 份项目报告; 负责公司在墨西哥、马来西亚和德国设立办公室的尽职调查工作; 建立并维护 25 家海外行业协会清单, 并与其进行沟通以推进公司加入相关组织

Paul Hartmann 06/2023-09/2023  
业务运营实习生, 业务运营部 莫斯科, 俄罗斯

- 收集来自药房的非标准化产品销售数据; 与销售部门合作, 搭建并上线新的零售端 (药房) 产品销售追踪系统; 在销售部与业务运营部之间进行跨部门沟通, 参与数据库系统开发相关工作

## 科研经历

DKU Energy Materials Laboratory (Prof. Xiawa Wang) 09/2024-至今  
OER 学生研究员 (本科毕业论文项目) 苏州, 中国

- 从事用于水分解体系的能源材料研究 (氢能经济与可再生能源储能)
- 电化学工作站 (LSV、CV、稳定性测试、EIS)、XRD (Jana、FullProf)、高温炉、透射电子显微镜 (TEM)、傅里叶红外 (FTIR)、拉曼 (Raman)、力学测试
- 在研论文:
  - Spin-polarized oxygen evolution catalysis enabled by a honeycomb quantum magnet, *Nature Catalysis* (Ghulam Hussain, Shuyi Li, Man Zhang, Bing Wang, Xinyan Dai, Shengyu Sun, Xiaoqi Zhou, Vladimir Presnov, Ziquan Wang, Yici Li, Xiawa Wang)
  - Cobalt-Substituted Nickel Orthoborates as Efficient Electrocatalysts for Oxygen Evolution Reaction in Water Splitting (Ghulam Hussain, Yici Li, Man Zhang, Vladimir Presnov, Ziquan Wang, Xiawa Wang)

多红光 / 近红外光子光氧化还原催化项目 10/2025-至今  
学生研究员 苏州, 中国

- 合成并表征基于卟啉的分子体系 (UV-Vis 表征); 评估其在电化学析氧反应 (OER) 中的性能, 用于能量转换系统研究

## 校园与社会活动

动物保护协会 (Animal Protection Academy, APA) 09/2022 - 至今  
创始人、联合主席 苏州, 中国

- 每年筹集经费 30,000 人民币; 负责校内 55 只流浪猫的健康管理与生活质量保障; 与本地宠物医院、宠物商店、收容所及领养机构建立长期合作关系; 与学校行政部门合作制定校园动物管理政策; 将社团规模扩展至 60 名活跃成员 (涵盖 5 个院系, 含教职员工); 获得星巴克基金会社区项目奖 (20,000 人民币资助)

国际风能项目评估: 中俄远东地区视角 10/2023 - 05/2025  
项目负责人 苏州, 中国

- 负责数据分析与 GIS 可视化、生命周期评价 (LCA) 环境分析、中国与俄罗斯能源政策研究.
- 团队构成: 3 名中国学生 + 本人
- 项目成果: 创新孵化器 Gold Idea 奖 (7,500 人民币)、俄罗斯可再生能源协会峰会视频展示项目、联合国千年学者计划 (UN Millennium Fellowship) 项目、教师支持的科研项目

## 其他信息

语言能力: 中文 (HSK5, 中高级)、英语 (熟练)、挪威语 (书面语 Bokmål, 中级)、俄语 (母语)

技能: Python (NLP、pandas、数学计算、数据可视化)、Origin、Excel (VBA、MACROS)、PowerPoint、CRM 系统 (Bitrix24)

证书 (Coursera): 商务 Excel、国际能源政治与经济

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## EDUCATION

**Duke Kunshan University (DKU) & Duke University Dual Degree** Class of 2026  
**B.Eng. in Materials Science; Physics Track (DKU)** Suzhou, China  
**B.S. in Interdisciplinary Studies: Materials Science; Physics (Duke)** Durham, U.S.

- GPA: 3.504/4.0; Dean's List Fall 2022, Spring 2023, Fall 2023, Spring 2024; Climate and Sustainability Committee Undergraduate Body Representative; Campus Sustainability Report – Energy Team Leader

## PROFESSIONAL EXPERIENCE

**Ruhlamat** 09/2025 – 11/2025  
**Business Development Intern, Marketing Department (Part-time)** Suzhou, China

- Developed 5 project reports for the clients; controlled due diligence for opening offices in Mexico, Malaysia and Germany; created a list of and communicated with 25 foreign associations for the company to join

**Paul Hartmann** 06/2023 – 09/2023  
**Business Operations Intern, Business Operations Department** Moscow, Russia

- Collected unstandardized reports from pharmacies on products' sales; launched a new system to track sales on products in retail (pharmacies) with sales department; communicated on cross-functional tasks with Sales and Business Operations Departments (database development).

## RESEARCH EXPERIENCE

**DKU Energy Materials Laboratory (Prof. Xiawa Wang)** 09/2024 – Present  
**OER Student Researcher (Senior Thesis Project)** Suzhou, China

- Research energy materials for water splitting systems (hydrogen economy and renewable energy storage).
- Instruments: potentiostat (LSV, CV, stability, EIS), XRD (Jana, FullProf), furnace, TEM, FTIR, RAMAN, mechanic tests.
- Publications (in progress):
  - Spin-polarized oxygen evolution catalysis enabled by a honeycomb quantum magnet, *Nature Catalysis* (Ghulam Hussain, Shuyi Li, Man Zhang, Bing Wang, Xinyan Dai, Shengyu Sun, Xiaoqi Zhou, **Vladimir Presnov**, Ziquan Wang, Yici Li, Xiawa Wang)
  - Cobalt-Substituted Nickel Orthoborates as Efficient Electrocatalysts for Oxygen Evolution Reaction in Water Splitting (Ghulam Hussain, Yici Li, Man Zhang, **Vladimir Presnov**, Ziquan Wang, Xiawa Wang)

**Multi-Red or NIR Photon Photoredox Catalysis** 10/2025 – Present  
**Student Researcher** Suzhou, China

- Synthesize and characterize porphyrin-based molecules (with UV-Vis) and evaluate their electrochemical OER performance (energy conversion systems).

## UNIVERSITY ENGAGEMENT

**Animal Protection Academy (APA)** 09/2022 – Present  
**Founder, Co-President** Suzhou, China

- Fundraise annual budget of 30,000 RMB; maintain health, quality of life of 55 cats on campus; develop relationships with local veterinary hospitals, pet stores, shelters, adoption fairs; produce campus-wide animal policy with administration; expand the club to 60 active members (5 departments) including faculty; Starbucks Foundation Winners (20,000 RMB funding for community projects)

**International Wind Project Assessment: China and Russia's Far East Perspectives** 10/2023 – 05/2025  
**Project Leader** Suzhou, China

- Data analysis and GIS visualization, LCA environmental assessment, China and Russia energy policy analysis.
- Team: 3 Chinese students and me
- Accomplishments: Gold Idea Winners for Innovation Incubator (7500 RMB), video presentation on Russia Renewable Energy Association Summit, UN Millenium Fellowship project, faculty-supported research

## ADDITIONAL INFORMATION

**Languages:** Mandarin (HSK5 – upper-intermediate), English (Proficient), Norwegian Bokmål (Intermediate), Russian (Native)  
**Skills:** Python (NLP, pandas, math, graphs), Origin, Excel (VBA, MACROS), PowerPoint, CRM (Bitrix24)  
**Certificates (Coursera):** Excel for Business, Politics and Economics of International Energy