

# Yevhenii Vaiser

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## SUMMARY

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Organic chemist bridging industry and academia: **3.5 years at Enamine Ltd.** delivering building blocks from discovery to kilogram scale, a **Mitacs research internship** in Canada, and a bachelor's thesis co-developed with Enamine on azabicyclic scaffolds for drug discovery. Seeking an MSc in Germany to deepen expertise in synthetic and medicinal chemistry.

## EDUCATION

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### Taras Shevchenko National University of Kyiv

Bachelor of Science in Chemistry

Sep 2021 – Jun 2025

240 ECTS | Weighted average: 83.9/100 | German GPA (Bayerische Formel): 2.19

**Thesis:** "A Novel Approach to the Synthesis of 1,4-Difunctionalized 7-Azabicyclo[2.2.1]heptanes" (98/100)  
Sequential directed bridgehead lithiation (sec-BuLi) and electrophilic quench for azabicyclic building blocks. Achieved quantitative yields with high purity; scaffolds relevant to nAChR ligand design.

## EXPERIENCE

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### Enamine Ltd. | Chemist

09.2022 – Present | 3.5 years

- Design, synthesize, and deliver **building blocks** for pharma screening libraries across **mg-to-kg scale**, using autoclaves and high-pressure reactors alongside standard glassware.
- Reaction condition optimization, purification (column chromatography, recrystallization, extraction), and distillation (simple, fractional, vacuum).
- Schlenk technique for air/moisture-sensitive chemistry; routine handling of **hazardous materials** — organometallics, fluorinating reagents, heavy metals, corrosives.
- QC at all stages via **HPLC, LC-MS, GC-MS, NMR** ( $^1\text{H}/^{13}\text{C}/^{19}\text{F}$ , 2D: COSY, NOESY, HMBC, HSQC).
- Since Jan 2025: contracted FTE chemist on an **R&D collaboration** with a major pharmaceutical partner (CRO model), focused on synthetic route optimization and compound delivery on tight timelines.
- Supervised a student intern (~6 mo): training in synthesis techniques, reaction monitoring, task and reagent management.

### Mitacs Globalink Research Internship | University of Regina, Canada Summer – Oct 2025 | ~4 months

- Synthesis of **twisted polycyclic aromatic hydrocarbons** through  $\alpha$ -allylation under Prof. Marc MacKinnon.

## SKILLS

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<b>Synthesis</b>	Multi-step organic synthesis, route design & reaction condition optimization, scale-up (mg $\rightarrow$ kg), Schlenk technique, purification (column chromatography, recrystallization, extraction), distillation, hazardous materials handling
<b>Analytical</b>	HPLC, LC-MS, GC-MS, NMR ( $^1\text{H}/^{13}\text{C}/^{19}\text{F}$ ; COSY, NOESY, HMBC, HSQC), TLC
<b>Software</b>	ChemDraw, Marvin Sketch, ISIS Sketch/Base, MestReNova, ACD Labs, Origin, Signals Notebook, Reaxys, SciFinder, Mendeley, MS Office
<b>Languages</b>	Ukrainian (native), English (C1 — TOEFL iBT 110/120), German (A2)