

# SIDAR ASLANOGLU

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## EXPERIENCE

### **Emersus AI** **Remote**

#### **Founder and Engineer (human-plus-AI build, Claude Code as coding agent)** **Feb 2026 - Apr 2026**

- Built the scientific evidence corpus end-to-end: ingested 2.3M+ paper records from 14 sources (PubMed, PMC, Europe PMC, OpenAlex, Semantic Scholar, bioRxiv, medRxiv, OpenAIRE, CORE, ClinicalTrials.gov, eLife, plus curated journal feeds); processed a 640 GB OpenAlex snapshot down to 1.12M topic-relevant additions.
- Engineered 3-layer deduplication and quality controls (language detection, retraction parsing, publication-type filters), then chunked and embedded 1.74M chunks with OpenAI text-embedding-3-small into a pgvector HNSW index. Stack: Postgres 15, pgvector, OpenAI, Claude Code as coding agent.
- Designed and benchmarked retrieval: a 10-configuration rerank shootout on a 200-fixture stratified eval set; the winning configuration (HyDE plus ZetRank-2) delivered +10 pp recall@10 over a dense baseline (paired Wilcoxon  $p=0.005$ ).
- Engineered a 4-layer Trust and Safety stack (OpenAI moderation, 40+ prompt-injection regex families across 9 attack categories, thread-drift detection, escalating cooldowns) plus 4-signal bot detection with adaptive rate limiting.
- Implemented anchor-verified citation grounding; a production evaluation of 1,783 anchors across 723 claims achieved a 97.3% pass rate. Production runs on the OpenAI ChatGPT API. Archived at [github.com/kayadibi1/emersusai](https://github.com/kayadibi1/emersusai).

### **UNFPA Regional Office for Eastern Europe and Central Asia (EECA)** **Istanbul, Türkiye**

#### **HR and Operations Intern** **Jul 2025 - Sep 2025**

- One of three interns on the Division of Human Resources regional data-analytics team; built an operational process map and bottleneck analysis for the Central Asia and Eastern Europe cluster (8 country offices), mapping end-to-end HR and operations workflows to surface inefficiencies and delays.
- Analyzed operations data quantifying procurement and payment processes for 140+ staff (2023-2025), comparing individual, business-unit, and cluster metrics on requisition, purchase-order, and payment-request volumes and approval turnaround.
- Built an Excel KPI dashboard and Power BI visualizations of the findings, presented to and evaluated by two country directors.

### **İhsan Doğramacı Center for Foreign Policy and Peace Research** **Ankara, Türkiye**

#### **Research Intern (International Security)** **Jun 2024 - Aug 2024**

- Produced an annotated literature review of 17 peer-reviewed studies (Web of Science and Google Scholar) on China's participation in UN peacekeeping operations, summarizing each study's research question and findings for the center's researchers.
- Identified and catalogued the relevant quantitative data landscape across four primary sources: UN DPO/DPPA troop, police, fatality, and personnel-contribution data; the IPI uniformed-contributions dataset; Harvard Dataverse deployment data; and SAIS China-Africa trade data.

### **Turkish Industry and Business Association (TÜSİAD), EU / Brussels Office** **Brussels, Belgium**

#### **Research Intern** **Jun 2023 - Aug 2023**

- Quantified Turkish sector exposure to emerging EU regulatory frameworks (sourced from EUR-Lex and European Commission impact assessments) using Eurostat and UN Comtrade trade-flow data, informing TÜSİAD's policy positioning and Brussels advocacy.
- Authored weekly contributions to the office's EU policy bulletin across energy, trade and customs, security, and technology files (national hydrogen strategy, Black Sea grain trade, energy sanctions, security assistance to Ukraine), synthesizing primary sources into concise briefs.
- Produced plain-language briefings on EU third-country agreements, including the EU-Chile MOU on sustainable critical raw materials value chains signed at the 2023 EU-CELAC Summit; mapped Brussels cybersecurity policy experts across three think tanks and industry councils (EPC, CEPS, ITI) for a speaker-selection event.

**Bilkent University (TÜBİTAK 3005 Public-Policy Project)**  
**Research Assistant**

**Ankara, Türkiye**  
**Mar 2024 - Aug 2024**

- On a multi-coder team for "Policy Integration in Working Life" (PI Prof. Hasan Tolga Bölükbaşı; partner: Turkey's Ministry of Labour and Social Security), content-coded Turkish national action plans, employment strategies, and ministry circulars into a functional taxonomy and validated responsible institutions to build the project's Social Network Analysis dataset; content-analyzed Adana and Burdur field-interview transcripts.

**Istanbul Policy Center (Sabancı University)**  
**Research and Administrative Affairs Intern**

**Istanbul, Türkiye**  
**Jun 2024 - Aug 2024**

- Proofread and edited the center's 50-page annual activity report for funders and external stakeholders, reviewed the English translation for accuracy and consistency, and coordinated undergraduate interns to meet the delivery deadline; compiled daily Turkish and international news bulletins relevant to the center's research agenda.

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**EDUCATION**

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**Johns Hopkins University, School of Advanced International Studies (SAIS)**  
**Master of Arts in International Relations**

**Washington D.C., USA**  
**Aug 2024 - May 2026**

- Dean's and Global Scholarships awarded for academic merit. Selected coursework: International Economics; Statistics for Data Analysis; Programming for Professional Research Using R; Introduction to GIS; Information Policy Strategy and Design in the Age of AI; Technology, Power and Statecraft.

**Bilkent University**  
**Bachelor of Arts, Political Science and Public Administration, Honors**

**Ankara, Türkiye**  
**Sep 2019 - Jun 2024**

- Full 5-year merit-based scholarship (national university entrance exam, top 3 percent). President of the International Relations Society Executive Board. Exchange semester at Amsterdam University College, Political Science Honors Program (Sep 2022 - Feb 2023).

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**PUBLICATIONS**

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- "Changes in German Foreign and Security Policy after Russia's Invasion of Ukraine: The New Security Strategy" (in Turkish), *EURO Politika*, October 2023. Analysis of Germany's first postwar National Security Strategy and the Zeitenwende, centered on Russia-Germany energy dependence, Bundeswehr capacity, and NATO burden-sharing.

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**ADDITIONAL INFORMATION**

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**Languages:** Turkish (native), English (C2), French (A1).

**Quantitative and Statistical Software:** Stata (descriptive statistics, t-tests and ANOVA, correlation, OLS regression, data cleaning and visualization), R (data wrangling, ggplot2, RMarkdown reproducible reporting), Excel (KPI modeling, cost-benefit and NPV analysis, scenario and sensitivity analysis, dashboards), QGIS (geospatial analysis: vector and raster data, geoprocessing, terrain and suitability analysis).

**Data Sources and Databases:** UNFPA operations data, Eurostat, EUR-Lex, UN Comtrade, UN DPO peacekeeping data, Web of Science, Google Scholar.

**AI / ML:** LLM application design (RAG, retrieval, reranking), evaluation and guardrails (prompt-injection defense, topic-lock, LLM-as-judge, anchor verification), structured-output and tool-use schema design, API integration (OpenAI, Anthropic).

**Visualization:** Power BI, R (ggplot2).