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<div class="query-plan-nav-container">
  <svg class="query-plan-svg" viewBox="0 0 100 100"
  preserveAspectRatio="xMidYMid meet">
    <!-- Top join to CV -->
    <line id="line-top-join" x1="50" y1="20" x2="30" y2="50" />
    <line id="line-cv" x1="50" y1="20" x2="70" y2="50" />

    <!-- Bottom join to leaves -->
    <line id="line-bottom-join" x1="30" y1="50" x2="10" y2="80" />
    <line id="line-blog" x1="30" y1="50" x2="50" y2="80" />
  </svg>

  <!-- Nodes (text and joins) -->
  <div class="query-plan-node join join-top">⋈</div>
  <div class="query-plan-node join join-bottom">⋈</div>

  <div id="node-name" class="query-plan-node leaf-name">
    <a href="/">Aliya Bannayeva</a>
  </div>
  <div id="node-blog" class="query-plan-node leaf-blog">
    <a href="/blog/">Blog</a>
  </div>
  <div id="node-cv" class="query-plan-node leaf-cv">
    <a href="/files/cv.pdf" target="_blank">CV as PDF</a>
  </div>
</div>

```

Final semester master student at TU Munich. I did my thesis at the [Chair for Database Systems](#) under the supervision of Altan Birlir and Prof. Thomas Neumann, on multi-join cardinality estimation using sketches. My current focus is on adaptive query optimization.

Outside of databases, my interests are mainly surrounding mathematics (concentration bounds) and materials science (crystallography). I'm always open to collaborating on interesting projects, please feel free to reach out for a chat.

[\[Google Scholar\]](#) | [\[GitHub\]](#) | [\[Email\]](#)

 Aliya Bannayeva