

# Freelance Opportunity: Python Developer for Network Metrics Functions

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**Client:** Max Planck Institute for Evolutionary Anthropology (MPI-EVA), Leipzig, Germany

**Location:** Remote

**Contract Type:** Freelance

The Max Planck Institute for Evolutionary Anthropology is seeking a freelance Python developer to support the final development phase of a **Bayesian inference software package**. This role will focus on implementing key **graph-theoretic metrics**—**betweenness centrality** and **modularity**.

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## Project Scope

- Develop and optimize functions for key network metrics within a Bayesian inference context.
  - Leverage **Python** and **JAX** for high-performance numerical computations.
  - Collaborate remotely with the research team to ensure smooth integration of functionalities.
  - Write clear, efficient, and well-documented code suitable for long-term use and extension.
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## Required Skills

- Proficiency in **Python**, with experience using **JAX** or other array-based computing libraries.
  - Strong understanding of **graph theory** and **network analysis**.
  - Familiarity with **Bayesian inference** and probabilistic programming is a strong plus.
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## Estimated Timeline

We estimate the following approximate time requirements for each component of the project:

- **Betweenness Centrality:** 20–30 hours
  - **Modularity:** 20–30 hours
  - **Total Estimate:** ~40-60 hours
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We look forward to hearing from you!