

Starting a New Job in Clinical Research

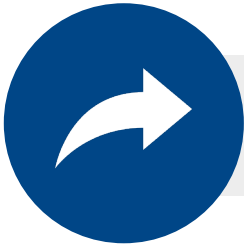
What Skills Would One Need

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Agenda



Introduction

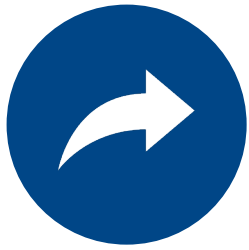


Hard skills vs soft skills

- Programming languages
- Understanding of statistical methodology
- Communication
- Teamwork



Conclusion



Introduction

What does a statistical programmer, in clinical research do?

- Developing programs (macros)
- Developing/validating analysis datasets, tables, listings and figures
- Review of clinical trial documents (e.g. Statistical Analysis Plan)



Hard skills



Programming languages



Statistical knowledge



Good knowledge of
regulations/industry
standards



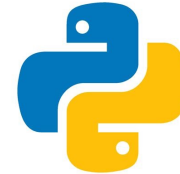
Language skills



Hard skills



Programming languages





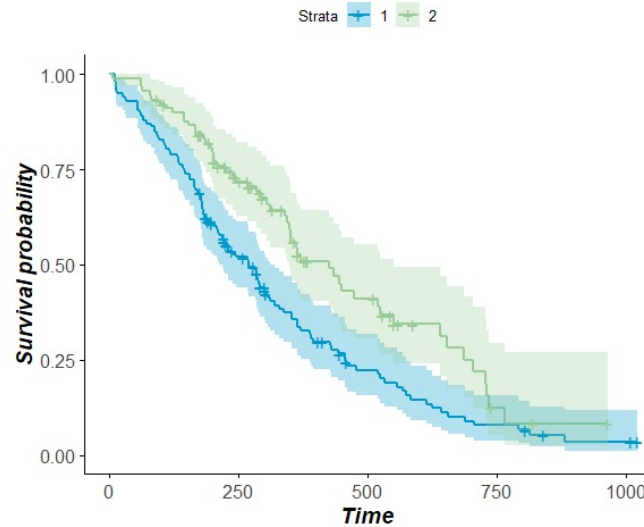
Hard skills



Statistical methods

$$t = \frac{\bar{x} - \mu}{\frac{s}{\sqrt{n}}}$$

$$H_0: p = p_0 \text{ vs. } H_A: p \neq p_0$$



$$Y = \alpha + \beta X + \varepsilon$$



Hard skills



Knowledge of regulations/industry standards



Regulatory agencies



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH





Hard skills



Language skills

Fluency in English

- Verbal
- Written

(Other languages can be beneficial but are not necessary)



Soft skills



Communication



Teamwork



Time
management



Analytical skills



Problem-
solving



Conclusion

The basis for starting a job as a statistical programmer in clinical research:

- Programming knowledge (SAS and R)
- Understanding of statistical methods
- Understanding of industry standards and regulations
- Strong English language skills
- General interest in clinical research

Additional skills (soft skills): communication, teamwork, ...

Continued learning (attending conferences, workshops, keeping up with changes in regulations...)

Thank you for your attention



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