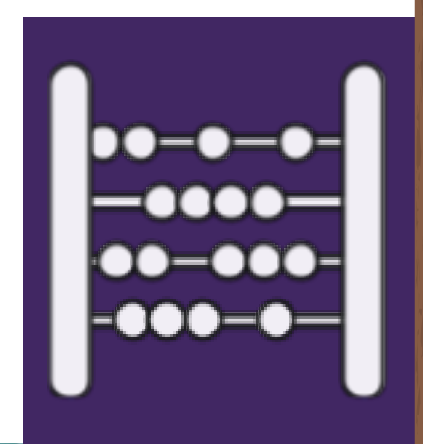
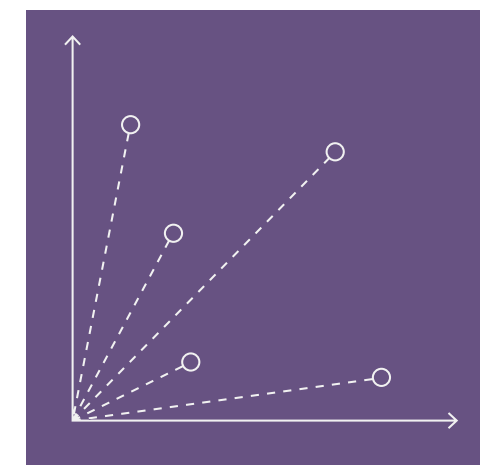
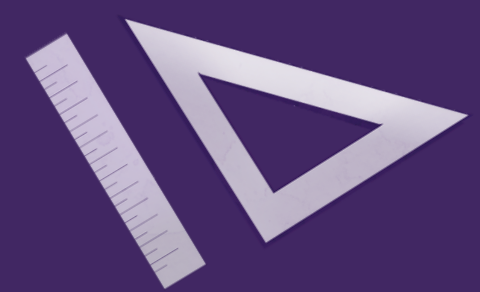
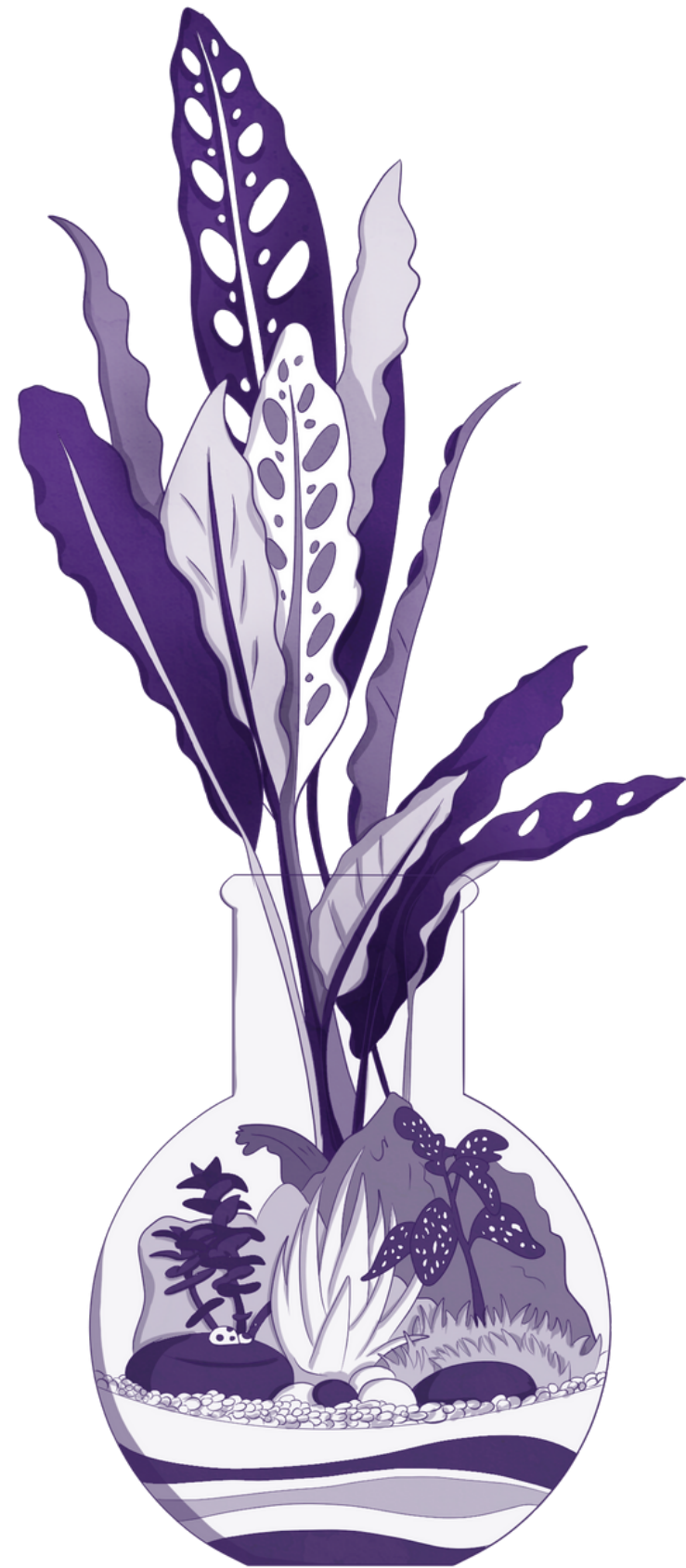


# Career Guidebook



Mathematics





# Mathematics



# Physics



# Computer Science

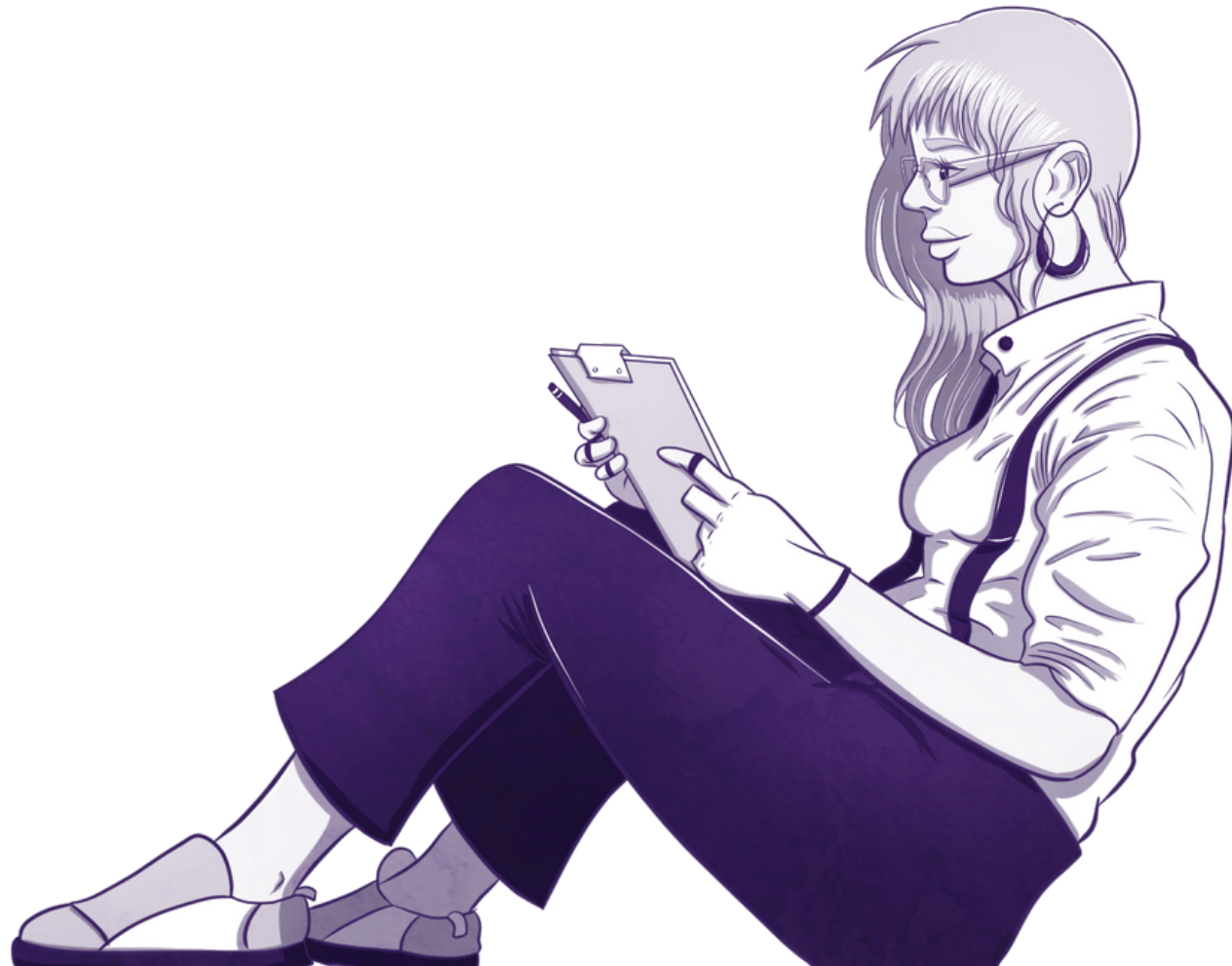


# Education and Careers in Mathematics

The perfect equation for stimulating projects  
and challenges



# Guide Content



**01** Profile of a mathematician

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**02** Training in Quebec

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**03** Career Fields

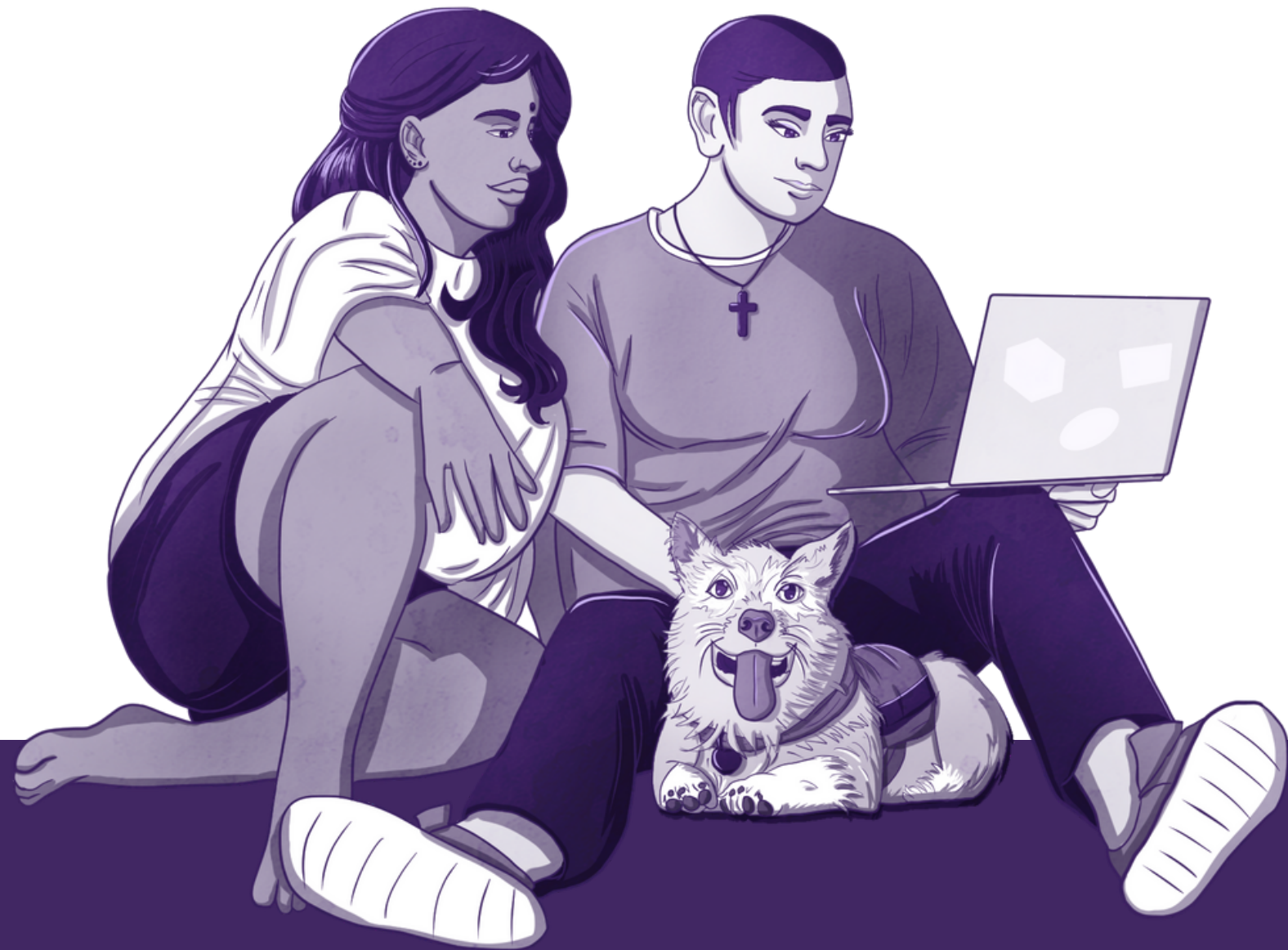
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**04** Testimonials

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**05** Remuneration

# 01 Profile of a Mathematician



# A Mathematician

## Is

- Curious
- Versatile
- Rigorous
- Ressourceful
- Creative

## Like

- Problem-solving
- Collaborative teamwork
- To communicate

## Has

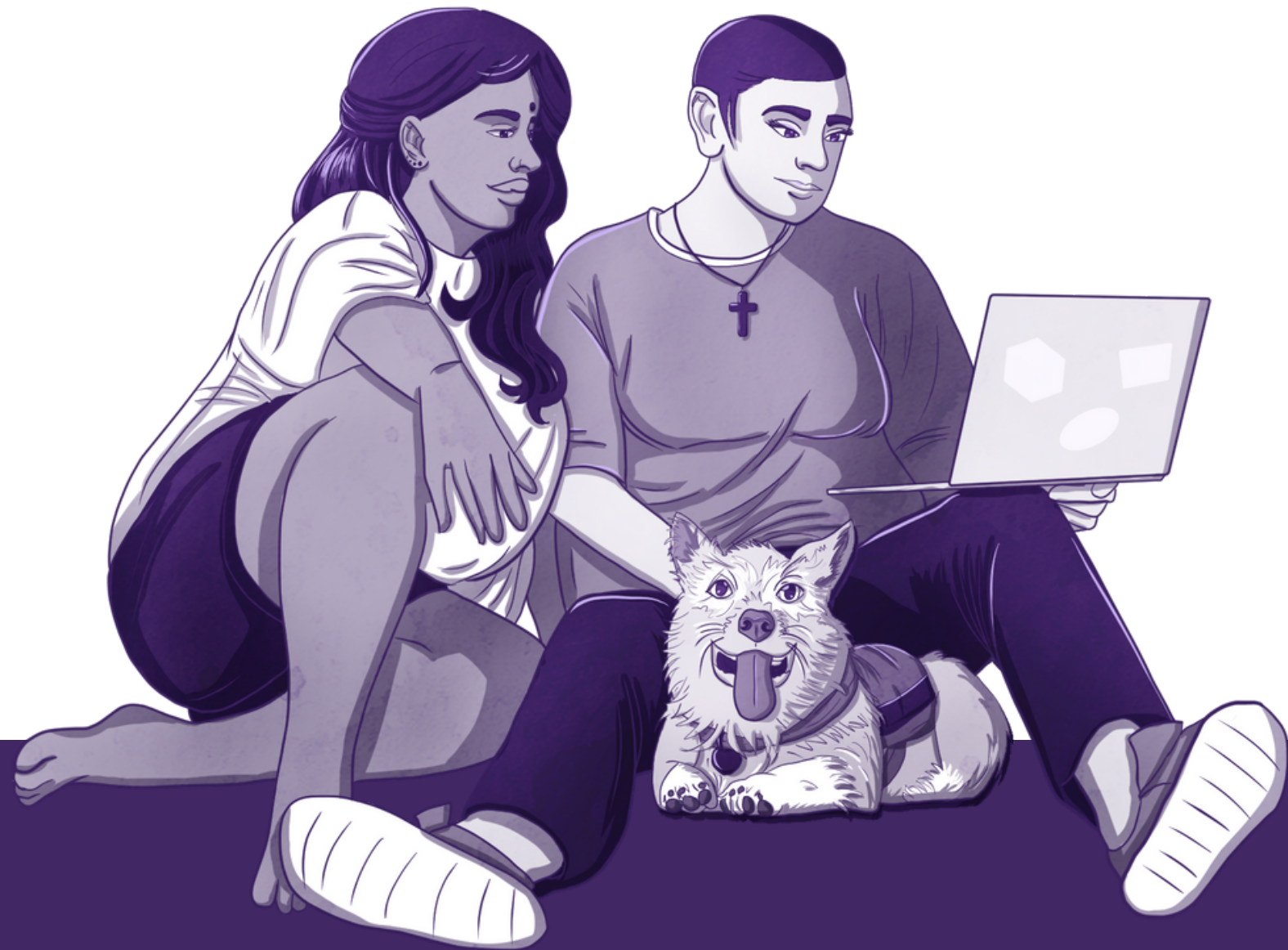
- Organizational skills
- Critical thinking

## Can

- Work efficiently
- Be independent

# 02 Training

## Career Trajectories



# Pre-University Programs

Lead to a Diploma of College Studies (DEC)

## Natural Sciences

**Duration:** 2 years

Specific training: biology, chemistry, mathematics (differential and integral calculus, linear algebra and vector geometry), physics



## Computer Science and Mathematics

**Duration:** 2 years

Specific training: chemistry, computer science, mathematics (differential and integral calculus, linear algebra and vector geometry, discrete mathematics), physics





# Bachelor of Mathematics



## First Cycle

**Duration: 3 years**

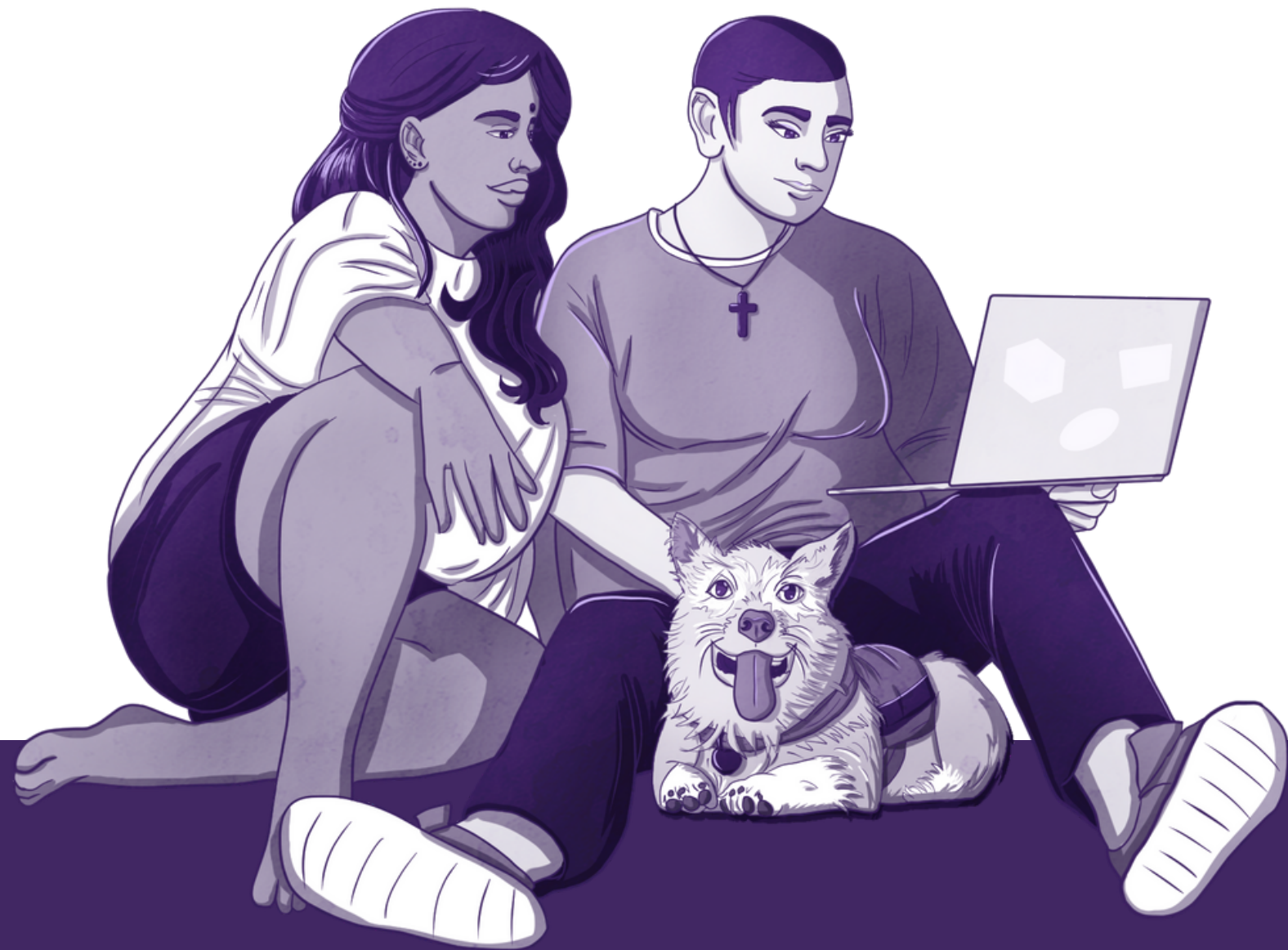
**Credits : 90**

Minimum R-score varies by university

Mandatory courses: linear algebra, analysis, calculus, mathematics discrete, probabilities, stochastic processes, statistics

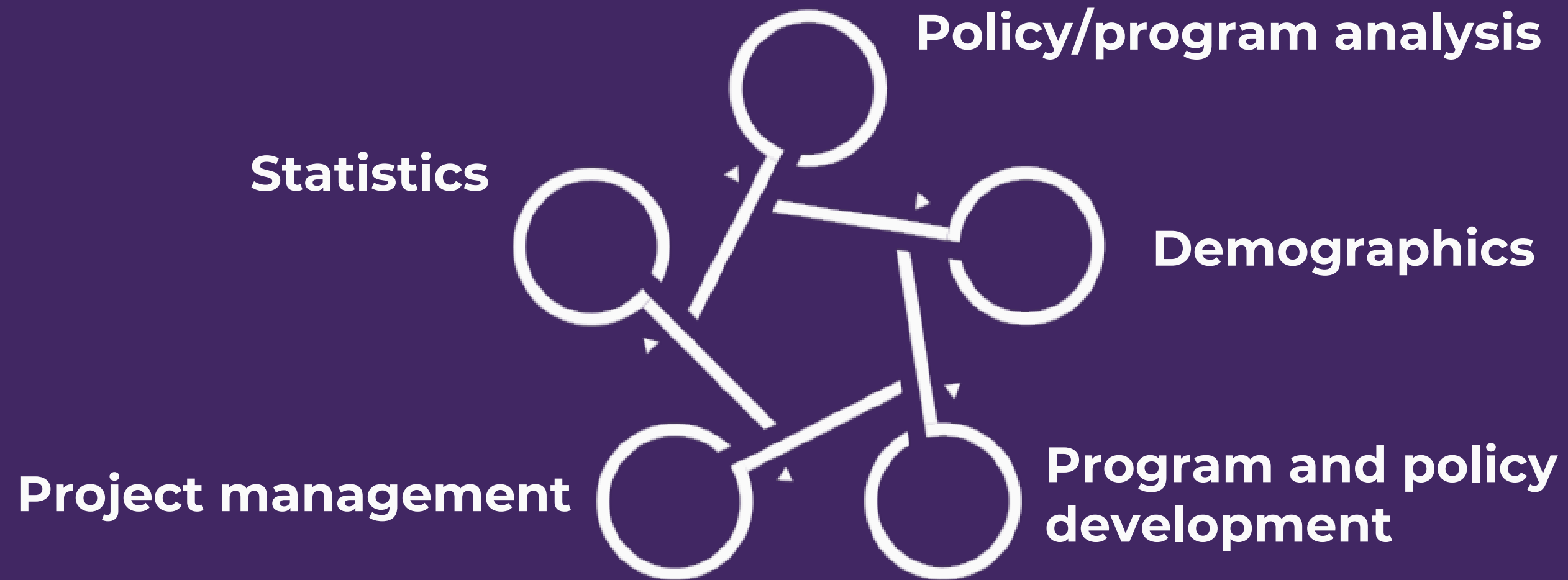
# 03 Career Fields

Different Sectors Hire  
Mathematicians

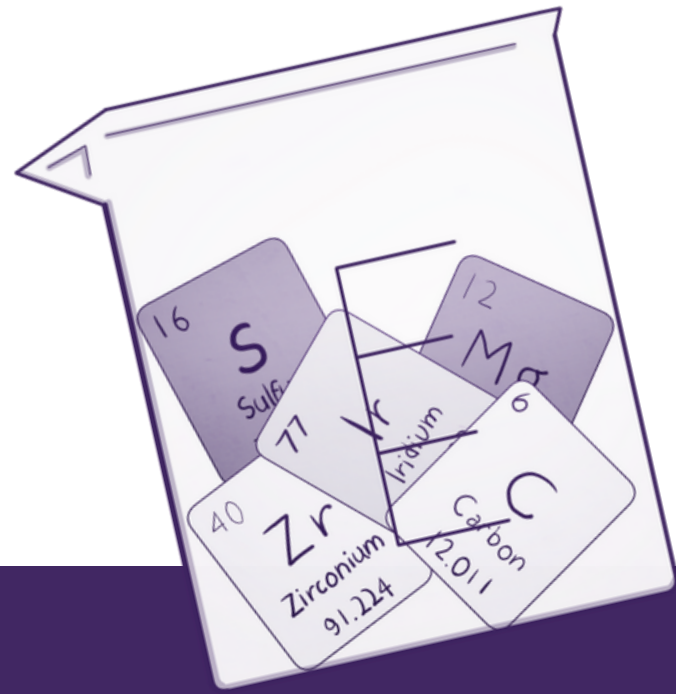




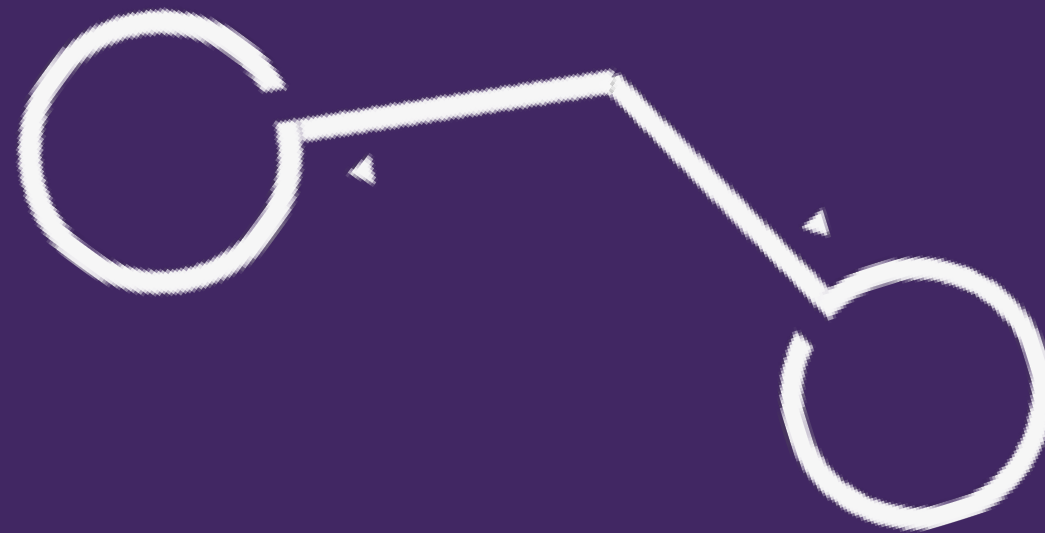
# Public Service



# Teaching and Research

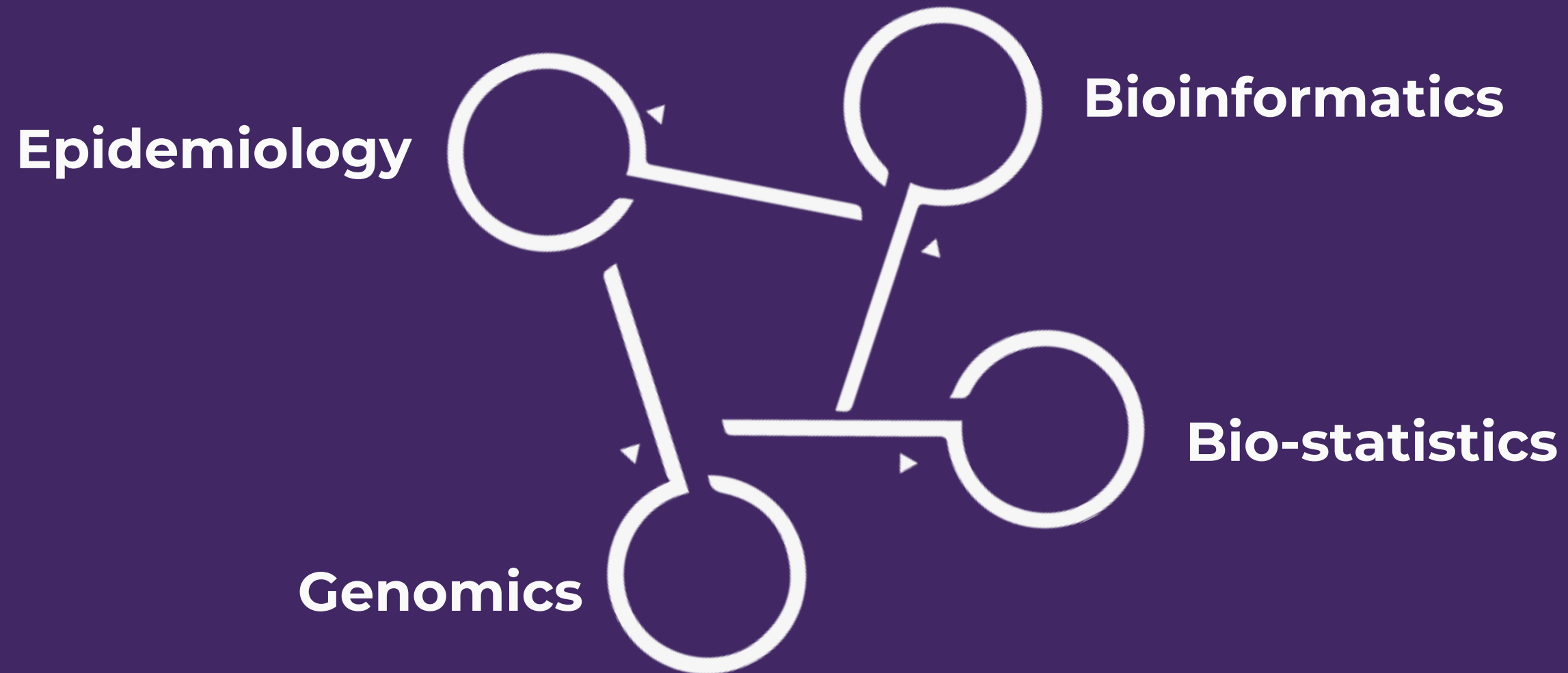


College level



University level

# Health and Social Services





# Industry and Trade

**Modeling of industrial systems**

**Operation simulation and optimization**



**Analysis and quality control**

**Computer systems analysis**

**Analysis in data processing**



# Services



# Examples of Employers



- Electronic industries and telecommunications
- Parastatal industries
- IT industries and High-Tech companies
- Pharmaceutical and clinical research companies
- Insurance companies
- Medical centres
- Research centres
- College and universities
- Federal and provincial governments
- Polling firms
- Finance/economic sectors
- Consulting firms



# 04 Testimonials

Profile of Professionals





# Manager of the Biostatistics Department

at Montreal Health Innovations Coordinating Center

Marie-Claude Guérin



Doctoral degree in Statistics, Université de Montréal;



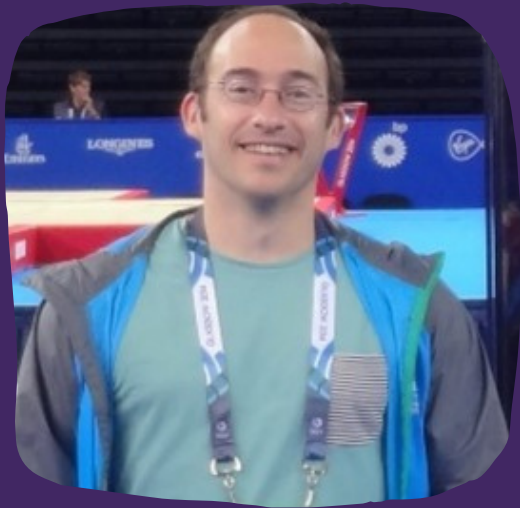
"In collaboration with researchers and clinicians, I contribute to the design of clinical studies. I analyze the data collected to answer research questions about diagnosing, preventing and treating illnesses."



"I find it rewarding to participate in state-of-the-art research and see that the statistical analysis results enable us to advance our understanding. To ultimately improve people's care."



A challenge is to "work with non-statisticians. Their research questions are very concrete. The challenge is to convert them into theoretical statistical models, then simplify the results to get real, understandable answers."



Bruno Martin

# Technical Leader in Software Development



Master's degree in Mathematics, Université Laval  
Pure and Applied Science, Cégep de Lévis



"I propose innovative technological solutions to businesses working in the areas of imagery and augmented and virtual reality."

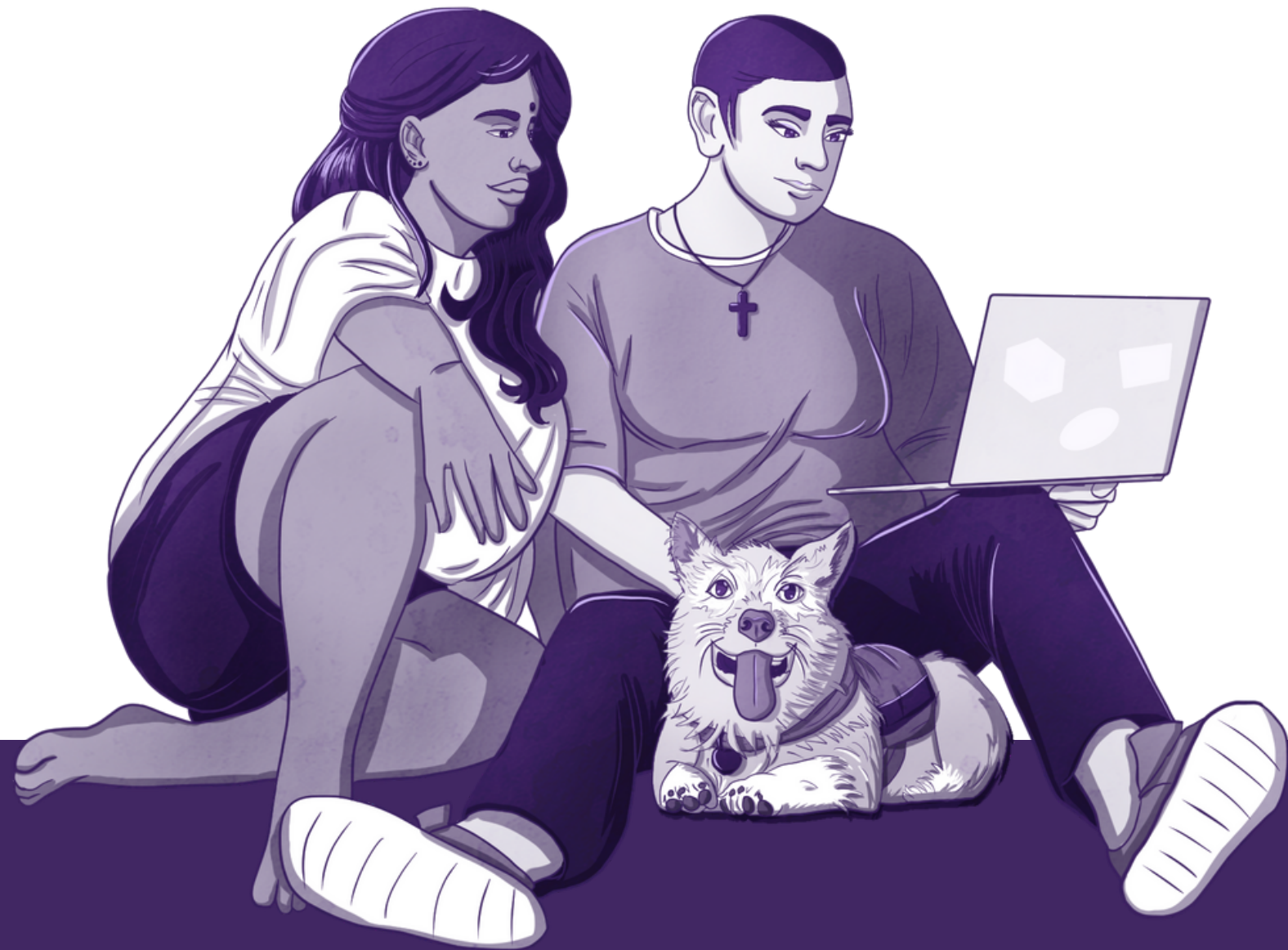


"I love the possibility of continuously learning in several cutting-edge fields."



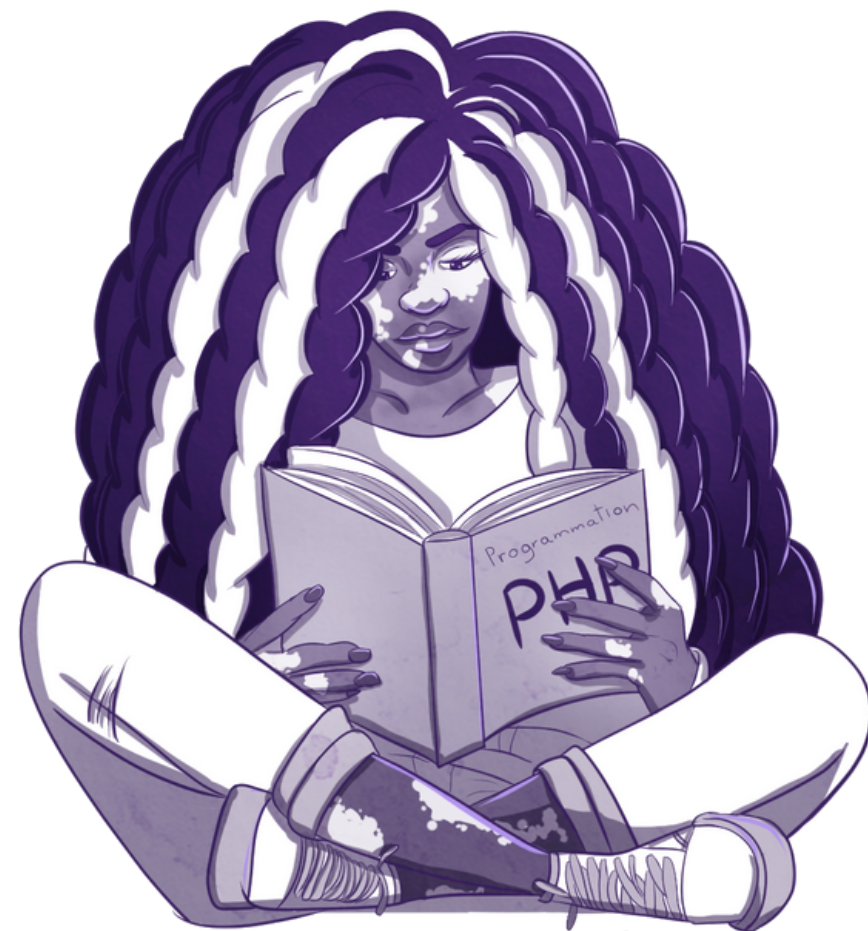
A challenge is to "always being on the lookout for new technologies and exploring and understanding new areas."

# 05 Remuneration



# Annual Salary

\$ 83,000  
average per year



# Hourly



\$ 42 / hr  
average



\$ 26 / hr  
minimum



\$ 69 / hr  
maximum

# Our Partners



# Contact us



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[www.paritiesciences.com](http://www.paritiesciences.com)





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