# Viktor Rognås

## Pharmacometric Engineer (Uppsala) available from April 2023

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ABOUT ME

My current contract ends at the end of March and I am loking for new opportunities (projects/employment) within the pharmacometric field, or adjacent. Currently I am enrolled in the interdisciplinary Uppsala Antibiotic Center research school at Uppsala University. I am exploring new statistical methods for assessing antibiotic efficacy in humans. My academic supervisors are Prof. Lena E Friberg, Prof. Mats O Karlsson.

COURSES I HAVE ATTENDED

### Pharmacometric Modeling of Composite Score Outcomes
Uppsala University 2020 (2 days)

### Advanced Population Model Building, Evaluation and Usage in NONMEM
Uppsala University 2020 (3 days)

### Uppsala Pharmacometric Summer School
Uppsala University 2019 (10 days)

### Sheiner/Rowland Advanced PKPD
Sils Maria 2018 (5 days)

### Pharmacometric Statistics
TACA Training, Dublin 2019 (3 days)

### Advanced Methods in NONMEM 7.5
ICON plc, PAGE Ljubljana 2022 (1 day)

### Clinical Trials Epidemiology
Uppsala University 2020 (5 days)

### Antibiotic Resistance in Humans, Animals and the Environment
Uppsala Antibiotic Center 2018 (2 days)

### Introductory course on Antimicrobial Resistance
Uppsala Antibiotic Center 2018 (2 days)

### Antibiotic Use & Human Behaviour
Uppsala Antibiotic Center 2018 (2 days)

### Scientific Presentation
Uppsala University 2018 (7 days)

### The Economics of Antibiotics
Uppsala Antibiotic Center 2019 (2 days)

EXPERIENCE

### Internship: Clinical Pharmacometrics
F. Hoffmann-La Roche Ltd 09/2021 - 02/2022 Basel, Switzerland

- Carried out exploratory statistical and graphical analyses of data sets of two compounds from different trials.
- Developed a model that simultaneously describes the time course of several variables involved in the development of red blood cells.
- Explored the inclusion of a blood sampling effect and tolerance effect.
- Presented my work to the Clinical Pharmacometrics Project Forum, attended by more than 25 experts as well as to a non-technical audience.
- Delivered a technical report describing the work and the results.

SKILLS I HAVE ACQUIRED

### Modeling experience

**Time-to-event** **Bounded integer** **Turn-over (indirect-effect)** **Population PKPD** **Dropout models** **Disease progression**

### Tools I know how to use

**NONMEM** **PsN** **Git/GitHub** **Shell (bash/zsh)** **R (tidyverse)** **MS Excel** **MS Word** **Rmarkdown** **Vim** **Powerpoint/Keynote** **macOS** **Xpose/Xpose4** **Slack** **SLURM**

FORMAL EDUCATION

### Ph.D. Pharmaceutical Sciences
Uppsala University
09/2017 - Ongoing

- Pharmacometrics
- Antimicrobial resistance

### M.Sc. Chemical Engineering
Uppsala University
08/2015 - 06/2017

- Pharmaceutical sciences

### B.Sc. Technology
Uppsala University
08/2011 - 06/2014

- Minor in mathematics

### School of Entrepreneurship
Uppsala University
08/2016 - 06/2017

- Commercializing academic research
- Leadership, marketing, and business strategy

### Molecular & Cellular Biology
University of Colorado
08/2014 - 05/2015 Boulder, CO

- Differential equations
- Engineering management

EXPERIENCE

## Teacher: Pharmacokinetics and Statistics

Uppsala University 11/2017 - Ongoing

- 20% of my Ph.D. studies devoted to teaching
- Instructed up to 80 students individually and in groups

PROJECTS I HAVE SUPERVISED

## Model-based analysis of change in kidney function over time in critically ill patients

08/2019 - 01/2020

M.Sc. Pharmacy

- Coached and mentored student to attain the highest grade
- Inspired the student to search and apply for a PhD in the field

## Review on Colistin Pharmacokinetics

10/2020 - 12/2020

B.Sc. Pharmacy student

- Inspired the student to search and apply for a M.Sc. in the field

VOLUNTEERING

## Journal Club Organizer

Pharmacometric Research Group

2020 - 2021 Uppsala University

Every four weeks I host a Journal Club devoted to Antibiotic Research

## Member of the Board

Department of Pharmaceutical Biosciences

11/2017 - 06/2018 Uppsala University

## Member of the Board

AAPS Chapter Association

09/2018 - 09/2019 Uppsala University

LANGUAGE SKILLS

Swedish Native

English Fluent

FIND ME ONLINE

Description of my PhD project

uac.uu.se/uac-research/colistin-pkpd

Personal blog

vrognas.com

LinkedIn

linkedin.com/in/vrognas

Twitter

twitter.com/vrognas

GitHub

github.com/vrognas

YouTube

youtube.com/channel/UCWMSCLi5EXR-vsZtRYF3xYA

REFERENCES

Professor Lena E. Friberg

lena.friberg@farmaci.uu.se

Dr. João Abrantes

joao.abrantes@roche.com

AWARDS

Pharmaceutical Students Association award for Student Treatment

Studierådets pris för studentbemötande

ORIGINAL WORK

## An integrated semi-mechanistic model to predict the outcome of drug-target effects on the erythropoietic system

PAGE 2022 | Ljubljana, Slovenia

*V Rognås et al.*

https://www.page-meeting.org/?abstract=10044

Semi-mechanistic population PKPD model describing the developemnt of red blood cells

## Turn-over model characterizing effect of colistin on serum-creatinine in critically ill patients

PAGE 2021 | Online, In the cloud

*V Rognås et al.*

www.page-meeting.org/?abstract=9869

Indirect-effect model of drug effect on kidney function

## Population pharmacodynamics of colistin and meropenem in critically ill patients infected with carbapenem-resistant bacteria

Clinical Microbiology and Infection

*AN Kristoffersson, MJE Brill, V Rognås, et al.*

03/2020 https://doi.org/10.1016/j.cmi.2020.03.016

Time-to-event and PK modeling

## Bounded Integer approach to model time-varying SOFA scores from patients with carbapenem resistant infections

PAGE 2019 | Stockholm, Sweden

*V Rognås et al.*

www.page-meeting.org/?abstract=9052

Bounded Integer model for composite total scores