



# Raju Rimal

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in therimalaya • therimalaya • mathatistics

https://mathatistics.com • Certifications: Driving license class B

Passionate about data analysis and visualisations with strong technical and interpersonal skills for working in a team and searching career in the the field of data science.

## Experiences

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### Research

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#### University of Oslo, Faculty of Medicine

Oslo, Norway

Postdoctoral Fellow, Department of Biostatistics

Nov 2020 - Now

Analyzing the trend of melanoma incidence and survival by tumour thickness in Norway overall and within different prognostic factors such as sex, age, anatomic site, and melanoma subtypes.

#### Norwegian University of Life Sciences

Ås, Norway

Ph.D. Candidate, Faculty of Chemistry, Biotechnology and Food Science

Aug 2015 - Oct 2019

Developing a versatile tool for simulating multi-response data from a linear model.

### Consultation and Advising

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#### Norwegian University of Life Sciences

Ås, Norway

Senior Consultant, Central Administration

Nov 2019 - May 2020

Mapping the research works of NMBU to the SDG goals of UN is the primary objective of this project. Creating web-application from scratch and analysing & visualizing the collected data has been an exciting experience.

#### Norwegian University of Life Sciences

Ås, Norway

Consultant, StatHelp

Nov 2016 - March 2018

Providing statistical advice and tips about data analysis and preparation to the bachelors, masters and other PhD students was both exciting and challenging job where I encountered problems from many disciplines such as animal sciences, plant sciences and econometrics.

### Teaching

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#### Norwegian University of Life Sciences

Ås, Norway

- Theoretical Statistics II

Spring 2020

Planning and preparation of the complete course, prepare exercises, assignments and examination.

- Applied Methods in Statistics

Autumn 2018

Involved in lecturing the part of the course including classification and discrimination

- Design of Experiment and Analysis of Variance

August 2017

Involved in lecturing the part of the course.

## Teaching Assistant

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Norwegian University of Life Sciences

Ås, Norway

- Applied Methods in Statistics *Autumn of 2016, 2017 and 2018*
- Regression Analysis *January of 2014, 2016 and 2017*
- Design of Experiment and Analysis of Variance *August of 2013, 2015, 2016 and 2017*

Working closely with students and preparing exercises for the course helped me not only to understand and solve students' problems but also gave me ideas on how to construct lectures, exercises and other activities for future courses. The experience has also helped me to clearly understand many basic statistical concepts.

## IT Support

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- Election Commission Nepal, Computer Operator *Aug 2011–July 2012*
- Postal Services Department, Nepal, Computer Operator *Mar 2005–Aug 2011*

## Education

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### Dissertations and Publications

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Masters Thesis

2015

- Rimal, Raju. *Evaluation of models for predicting the average monthly Euro versus Norwegian krone exchange rate from financial and commodity information*. MS thesis. Norwegian University of Life Sciences, Ås, 2014.  
<https://doi.org/10.13140/rg.2.1.1145.4886>

PhD Thesis

2019

- Rimal, Raju. *Exploration of Multi-Response Multivariate Methods* PhD thesis. Norwegian University of Life Sciences, Ås, 2019.  
<https://therimalaya.github.io/Thesis/Thesis.pdf>

Research Articles

2015-Now

- Rimal, Raju, Almøy Trygve, and Sæbø Solve. *A tool for simulating multi-response linear model data*. *Chemometrics and Intelligent Laboratory Systems* 176 (2018): 1-10.  
<https://doi.org/10.1016/j.chemolab.2018.02.009>
- Helland, Inge S., Sæbø, solve, Almøy, Trygve and Rimal, Raju, 2018. *Model and estimators for partial least squares regression*. *Journal of Chemometrics*, 32(9), p.e3044.  
<https://doi.org/10.1002/cem.3044>
- Rimal, R., Almøy, T., & Sæbø, S. (2019). *Comparison of multi-response prediction methods*. *Chemometrics and Intelligent Laboratory Systems*, 190, 10-21.  
<https://doi.org/10.1016/j.chemolab.2019.05.004>
- Rimal, Raju, Almøy, Trygve, and Sæbø Solve. 2019. *Comparison of multi-response estimation methods* *Chemometrics and Intelligent Laboratory Systems* 205 (2020) 104093  
<https://doi.org/10.1016/j.chemolab.2020.104093>
- Rimal, R., Robsahm, T.E., Green, A.C., Ghiasvand, R., Rueegg, C.S., Bassarova, A., Gjersvik, P., Weiderpass, E., Aalen, O.O., Møller, B., Perrier, F., Veierød, M.B. 2022. *Trends in invasive melanoma thickness in Norway, 1983–2019*. working manuscript.  
<https://melo.cloudrimalaya.com/bias-2022>

## Conference Participation

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<b>ANCR Symposium 2022</b> <i>Trends in melanoma tumour thickness in Norway, 1983–2019</i>	<b>Tórshavn, Faroe Islands</b> September 14–16, 2022
<b>NOFE Conference 2021</b> <i>Long-term Trend on Tumour Thickness of Melanoma in Norway</i>	<b>Bergen, Norway</b> November 03–04, 2021
<b>Tenth World Congress of Melanoma in Conjunction with 17th EADO Congress</b> <i>Long-term trends in melanoma tumour thickness in Norway</i>	<b>Virtual (Online)</b> April 15–17, 2021
<b>The 26th Nordic Conference in Mathematical Statistics (NordStat 2016)</b> <i>Simrel-M: Simulation tool for multi-response linear model data</i>	<b>Copenhagen, Denmark</b> June 27–30, 2016
<b>The 19th national meeting of statistics (Norske Statistikermøtet)</b> <i>Simrel-M: A simulation tool and its application</i>	<b>Fredrikstad, Norway</b> July 12–15, 2017
<b>UseR!2018 Conference</b> <i>A versatile tool for simulating linear model data</i>	<b>Brisbane, Australia</b> July 10–13, 2018
<b>Scandinavian Symposium on Chemometrics (SSC16) Conference</b> <i>A comparison of multi-response prediction methods</i>	<b>Oslo, Norway</b> June 17–20, 2019

## Academic Qualifications

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<b>Norwegian University of Life Sciences</b> <i>Doctor of Philosophy in Applied Statistics</i>	<b>Ås, Norway</b> 2015–2019
<b>Norwegian University of Life Sciences</b> <i>Masters in Bioinformatics and Applied Statistics</i>	<b>Ås, Norway</b> 2012–2015
<b>Tribhuvan University, Central Department of Statistics</b> <i>Masters in Statistics, First Division (83.8%)</i>	<b>Kathmandu, Nepal</b> 2007–2009
<b>Tribhuvan University, Tri-chandra Campus</b> <i>Bachelors in Physics and Statistics, First Division (65.57%)</i>	<b>Kathmandu, Nepal</b> 2003–2007

## Skills

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### IT Skills

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*Advanced user of R and comfortable with Stata and Python in most situations.*

<b>ADVANCED</b> R (tidyverse, quarto, package development), Python, L <sup>A</sup> T <sub>E</sub> X, Microsoft Office, Graphics Design, Stata	<ul style="list-style-type: none"><li>○ Data pre-processing and management</li><li>○ Interactive web application using R</li><li>○ Structured &amp; reproducible workflow</li><li>○ Version control and testing</li><li>○ Data visualization</li><li>○ Web development and deployment</li></ul>
<b>COMFORTABLE</b> SPSS, Stata, Minitab, Matlab, Git, Docker, SQL, Linux, D3, PowerBI, Front-end (HTML, CSS, JavaScript, React)	
<b>ELEMENTARY</b> Julia, SVG, Backend web development (API, database design and server setup)	

## Scientific Skills.....

- Model building & Experimental design
- Dimensional reduction & Machine learning
- Basic epidemiology and survival analysis
- Data integration, exploraton, visualization

## Communication and Interpersonal....

- Organized, motivated and passionate
- Good communication skill
- Self competent and has team spirit
- Friendly and helpful nature

## Hobbies and Interests.....

I like hiking, cycling, and photography. In my free time I also like to play lego, draw and make crafts together with my son.

## Languages

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	<b>Reading</b>	<b>Writing</b>	<b>Speaking</b>	<b>Listining</b>
<b>Nepali</b>	Native	Native	Native	Native
<b>English</b>	Excellent	Excellent	Excellent	Excellent
<b>Hindi</b>	Very Good	Good	Good	Excellent
<b>Norwegian</b>	Intermediate	Intermediate	Novice	Intermediate

## References

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References will be provided on request.