



# Lampros Sp. Mouselimis

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mlampros | in mlampros | 🐦 lampros\_twit

*I'm a data & remote sensing analyst and open source author / maintainer of numerous R language packages (CRAN, Github), competent in two programming languages (R, Python) who takes advantage of C++ (in R through the Rcpp and RcppArmadillo packages and in python through Cython) to improve the efficiency of internal functions*



## R-Programming Packages

### VMDecomp

VARIATIONAL MODE DECOMPOSITION

- [http://mlampros.github.io/2022/06/11/variational\\_mode\\_decomposition/](http://mlampros.github.io/2022/06/11/variational_mode_decomposition/)

*Author and maintainer (CRAN)*

2022-06-09

### IceSat2R

ICESAT-2 ALTIMETER DATA USING R

- [http://mlampros.github.io/2022/02/12/IceSat2R\\_Altimetry\\_data/](http://mlampros.github.io/2022/02/12/IceSat2R_Altimetry_data/)

*Author and maintainer (CRAN)*

2022-02-07

### PlanetNICFI

PROCESSING OF THE 'PLANET NICFI' SATELLITE IMAGERY

- [http://mlampros.github.io/2021/06/12/Planet\\_NICFI\\_Satellite\\_Imagery/](http://mlampros.github.io/2021/06/12/Planet_NICFI_Satellite_Imagery/)

*Author and maintainer (CRAN)*

2021-06-10

### fitbitViz

'FITBIT' VISUALIZATIONS

- [http://mlampros.github.io/2021/05/20/fitbitViz\\_package/](http://mlampros.github.io/2021/05/20/fitbitViz_package/)

*Author and maintainer (CRAN)*

2021-05-18

### CopernicusDEM

COPERNICUS DIGITAL ELEVATION MODELS

- [http://mlampros.github.io/2021/05/21/copernicusDEM\\_package/](http://mlampros.github.io/2021/05/21/copernicusDEM_package/)

*Author and maintainer (CRAN)*

2021-05-15

### fastText

EFFICIENT LEARNING OF WORD REPRESENTATIONS AND SENTENCE CLASSIFICATION

- [http://mlampros.github.io/2021/05/14/fasttext\\_language\\_identification/](http://mlampros.github.io/2021/05/14/fasttext_language_identification/)

*Author and maintainer (CRAN)*

2021-05-14

### SuperpixelImageSegmentation

SUPERPIXEL IMAGE SEGMENTATION

- [http://mlampros.github.io/2018/11/09/Image\\_Segmentation\\_Superpixels\\_Clustering/](http://mlampros.github.io/2018/11/09/Image_Segmentation_Superpixels_Clustering/)

*Author and maintainer (CRAN)*

2018-12-30

### elmNNRcpp

THE EXTREME LEARNING MACHINE ALGORITHM

- [http://mlampros.github.io/2018/07/05/the\\_extreme\\_learning\\_machine\\_package/](http://mlampros.github.io/2018/07/05/the_extreme_learning_machine_package/)

*Author and maintainer (CRAN)*

2018-07-05

### nmslibR

NON METRIC SPACE (APPROXIMATE) LIBRARY

- [http://mlampros.github.io/2018/02/27/the\\_nmslibR\\_package/](http://mlampros.github.io/2018/02/27/the_nmslibR_package/)

*Author and maintainer (CRAN)*

2018-02-27

<b>RGF</b> REGULARIZED GREEDY FOREST <ul style="list-style-type: none"> <li>• <a href="http://mlampros.github.io/2018/02/14/the_RGF_package/">http://mlampros.github.io/2018/02/14/the_RGF_package/</a></li> </ul>	<a href="#">Author and maintainer (CRAN)</a> 2018-02-13
<b>GeoMongo</b> GEOSPATIAL QUERIES USING 'PYMONGO' <ul style="list-style-type: none"> <li>• <a href="http://mlampros.github.io/2017/08/07/the_GeoMongo_package/">http://mlampros.github.io/2017/08/07/the_GeoMongo_package/</a></li> </ul>	<a href="#">Author and maintainer (CRAN)</a> 2017-08-07
<b>fuzzywuzzyR</b> FUZZY STRING MATCHING <ul style="list-style-type: none"> <li>• <a href="http://mlampros.github.io/2017/04/13/fuzzywuzzyR_package/">http://mlampros.github.io/2017/04/13/fuzzywuzzyR_package/</a></li> </ul>	<a href="#">Author and maintainer (CRAN)</a> 2017-04-11
<b>geojsonR</b> A GEOJSON PROCESSING TOOLKIT <ul style="list-style-type: none"> <li>• <a href="http://mlampros.github.io/2017/03/29/geojsonR_package/">http://mlampros.github.io/2017/03/29/geojsonR_package/</a></li> </ul>	<a href="#">Author and maintainer (CRAN)</a> 2017-03-28
<b>textTinyR</b> TEXT PROCESSING FOR SMALL OR BIG DATA FILES <ul style="list-style-type: none"> <li>• <a href="http://mlampros.github.io/2017/01/05/textTinyR_package/">http://mlampros.github.io/2017/01/05/textTinyR_package/</a></li> </ul>	<a href="#">Author and maintainer (CRAN)</a> 2017-01-07
<b>GloveR</b> GLOBAL VECTORS FOR WORD REPRESENTATION (GLOVE) <ul style="list-style-type: none"> <li>• <a href="https://mlampros.github.io/GloveR/">https://mlampros.github.io/GloveR/</a></li> </ul>	<a href="#">Author and maintainer (Github)</a> 2017-01-04
<b>RandomSearchR</b> RANDOM SEARCH IN R <ul style="list-style-type: none"> <li>• <a href="http://mlampros.github.io/2016/03/14/random_search_R/">http://mlampros.github.io/2016/03/14/random_search_R/</a></li> </ul>	<a href="#">Author and maintainer (Github)</a> 2016-09-19
<b>ClusterR</b> GAUSSIAN MIXTURE MODELS, K-MEANS, MINI-BATCH-KMEANS, K-MEDOIDS AND AFFINITY PROPAGATION CLUSTERING <ul style="list-style-type: none"> <li>• <a href="http://mlampros.github.io/2016/09/12/clusterR_package/">http://mlampros.github.io/2016/09/12/clusterR_package/</a></li> </ul>	<a href="#">Author and maintainer (CRAN)</a> 2016-09-06
<b>KernelKnn</b> KERNEL K NEAREST NEIGHBORS <ul style="list-style-type: none"> <li>• <a href="http://mlampros.github.io/2016/07/10/KernelKnn/">http://mlampros.github.io/2016/07/10/KernelKnn/</a></li> </ul>	<a href="#">Author and maintainer (CRAN)</a> 2016-07-11
<b>OpenImageR</b> AN IMAGE PROCESSING TOOLKIT <ul style="list-style-type: none"> <li>• <a href="http://mlampros.github.io/2016/07/08/OpenImageR/">http://mlampros.github.io/2016/07/08/OpenImageR/</a></li> </ul>	<a href="#">Author and maintainer (CRAN)</a> 2016-07-09
<b>FeatureSelection</b> FEATURE EXTRACTION AND SELECTION BASED ON 'GLMNET', 'XGBOOST' AND 'RANGER' <ul style="list-style-type: none"> <li>• <a href="http://mlampros.github.io/2016/02/14/feature-selection/">http://mlampros.github.io/2016/02/14/feature-selection/</a></li> </ul>	<a href="#">Author and maintainer (Github)</a> 2016-05-18

## Education

<b>University of Tuebingen</b> DIPLOM IN BUSINESS ADMINISTRATION <ul style="list-style-type: none"> <li>• The effects of the introduction of Euro to the international price policy</li> </ul>	<a href="#">Germany</a> September 1996–December 2001
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## Experience

<b>Olympic Games Athens 2004</b> ASSISTANT LOGISTICS DEPARTMENT <ul style="list-style-type: none"> <li>• Employed as an assistant in the logistics department of the Olympic Games 2004</li> </ul>	<a href="#">Athens</a> May 2004–September 2004
<b>Information Research International</b> FIELD WORKER (DATA COLLECTOR) <ul style="list-style-type: none"> <li>• Employed as a data collector in a market research company</li> </ul>	<a href="#">Athens</a> November 2004–February 2016

## Learn to Program, The Fundamentals [ Coursera ]

UNIVERSITY OF TORONTO

- Online

[Python](#)

statement of completion

## Learn to Program, Crafting Quality Code [ Coursera ]

UNIVERSITY OF TORONTO

- Online

[Python](#)

statement of completion

## Coding the Matrix, Linear Algebra through Computer Science Applications [ Coursera ]

BROWN UNIVERSITY

- Online

[Python](#)

statement of completion

## An Introduction to Interactive Programming in Python [ Coursera ]

RICE UNIVERSITY

- Online

[Python](#)

statement of completion

## Cluster Analysis in Data Mining [ Coursera ]

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

- Online

[Python](#)

statement of completion

## Sequence Models [ Coursera ]

DEEPLARNING.AI

- Online

[Python](#)

statement of completion

## Web Intelligence and Big Data [ Coursera ]

INDIAN INSTITUTE OF TECHNOLOGY DELHI

- Online

[Python, SQL, R](#)

statement of completion

## Data-driven Astronomy [ Coursera ]

UNIVERSITY OF SYDNEY

- Online

[Python, SQL, R](#)

statement of completion

## Introduction to Data Science [ Coursera ]

UNIVERSITY OF WASHINGTON

- Online

[Python, SQL, R](#)

statement of completion

## R Programming [ Coursera ]

JOHNS HOPKINS UNIVERSITY

- Online

[R](#)

statement of completion

## Getting and Cleaning Data [ Coursera ]

JOHNS HOPKINS UNIVERSITY

- Online

[R](#)

statement of completion

## The Data Scientist's Toolbox [ Coursera ]

JOHNS HOPKINS UNIVERSITY

- Online

[R](#)

statement of completion

## Reproducible Research [ Coursera ]

JOHNS HOPKINS UNIVERSITY

- Online

[R](#)

statement of completion

## Exploratory Data Analysis [ Coursera ]

JOHNS HOPKINS UNIVERSITY

- Online

[R](#)

statement of completion

## Developing Data Products [ Coursera ]

JOHNS HOPKINS UNIVERSITY

- Online

[R](#)

statement of completion

## Practical Machine Learning [ Coursera ]

JOHNS HOPKINS UNIVERSITY

- Online

[R](#)

statement of completion

## Regression Models [ Coursera ]

JOHNS HOPKINS UNIVERSITY

- Online

[R](#)

statement of completion

## Statistical Inference [ Coursera ]

JOHNS HOPKINS UNIVERSITY

- Online

[R](#)

*statement of completion*

## Computing for Data Analysis [ Coursera ]

JOHNS HOPKINS UNIVERSITY

- Online

[R](#)

*statement of completion*

## Bayesian Statistics: From Concept to Data Analysis [ Coursera ]

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

- Online

[R](#)

*statement of completion*

## Core Concepts in Data Analysis [ Coursera ]

HIGHER SCHOOL OF ECONOMICS

- Online

[Matlab](#), [R](#)

*statement of completion*

## Machine Learning [ Coursera ]

STANFORD UNIVERSITY

- Online

[Octave](#)

*statement of completion*

## The Analytics Edge [ Edx ]

MITx – 15.071X

- Online

[R](#)

*statement of completion*

## Introduction to Big Data with Apache Spark [ Edx ]

BERKELEYX – CS100.1X

- Online

[Python](#), [Spark](#)

*statement of completion*

## Scalable Machine Learning [ Edx ]

BERKELEYX - CS190.1X

- Online

[Python](#), [Spark](#)

*statement of completion*

## Data mining with Weka [ [weka.waikato.ac.nz](http://weka.waikato.ac.nz) ]

UNIVERSITY OF WAIKATO

- Online

[Weka](#)

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## More data mining with Weka [ [weka.waikato.ac.nz](http://weka.waikato.ac.nz) ]

UNIVERSITY OF WAIKATO

- Online

[Weka](#)

*statement of completion*

## Introduction to statistical learning [ [online.stanford.edu](http://online.stanford.edu) ]

STANFORD UNIVERSITY

- Online

[R](#)

*statement of completion*

## Datenmanagement mit SQL [ [open.hpi.de](http://open.hpi.de) ]

HASSO-PLATTNER-INSTITUT

- Online

[SQL](#)

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## Spoken Languages

type	Reading	Writing	Listening	Speaking	Certificate	Institution	Year
<a href="#">Greek</a>	native	native	native	native	”	”	”
<a href="#">English</a>	22	28	18	23	<a href="#">TOEFL Ibt</a>	ETS	<b>2018</b>
<a href="#">English</a>	24	27	20	20	<a href="#">TOEFL Ibt</a>	ETS	<b>2011</b>
<a href="#">English</a>	C1	C1	C1	C1	<a href="#">State Certificate</a>	European Framework	<b>2010</b>
<a href="#">English</a>	B2	B2	B2	B2	<a href="#">ECCE</a>	University of Michigan	<b>2008</b>
<a href="#">German</a>	C2	C2	C2	C2	<a href="#">State Certificate</a>	European Framework	<b>2003</b>

Common European Framework of Reference for Languages: A1/A2: Basic User. B1/B2: Independent User. C1/C2: Proficient User

Technical Skills



Geospatial Analysis (Timeline)



## Personal Data

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Date of Birth	06th September 1976
Sex	Male
Mother's Name	Parthena Totska
Place of Birth	Greece
Marital Status	Single
Health	Irritable Bowel Syndrome (IBS). IBS affects about 1 out of 10 people according to the International Foundation for functional gastrointestinal disorders (IFFGD)
Driving License	Car, Motorcycle
triathlon	from 2007 to 2010 I was an amateur triathlete
trail running	Since 2006 I participate occasionally in trail running competitions
Free time Activities	running, swimming, cycling, tennis playing, watching movies

## Publications

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### L Mouselimis

KERNELKNN: KERNEL K NEAREST NEIGHBORS

URL: <https://CRAN.R-project.org/package=KernelKnn>

2021

### L Mouselimis, C Sanderson, R Curtin, S Agrawal, B Frey, D Dueck

CLUSTER: GAUSSIAN MIXTURE MODELS, K-MEANS, MINI-BATCH-KMEANS, K-MEDOIDS AND AFFINITY PROPAGATION CLUSTERING

*R package version*

2019

### L Mouselimis, A Gosso

ELMNNRCP: THE EXTREME LEARNING MACHINE ALGORITHM

*R package*

2018

### L Mouselimis

OPENIMAGER: AN IMAGE PROCESSING TOOLKIT

*R package version*

2017