

Professional development workshops and resources designed for graduate students



Want to learn R?

Tuğba Öztürk-Dalpé



Hello!

I am Tuğba.

I am a statistical biophysicist, a workshop facilitator at GradProSkills, a member of RLadiesMTL.

You can find me at getugbaoztrk and

O@tugbateaches.









- Robust
- Open source
- High level
- Extendible
- A dynamic community

- Robust
- Open source
- High level (simple syntax, easy-to-learn)
- Extendible
- A dynamic community

- Robust
- Open source
- High level (simple syntax, easy-to-learn)
- Extendible (a lot of R packages)
- A dynamic community

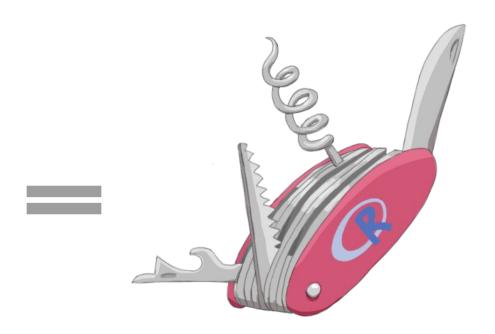
- Robust
- Open source
- High level (simple syntax, easy-to-learn)
- Extendible (a lot of R packages)
- A dynamic community

- Robust
- Open source
- High level (simple syntax, easy-to-learn)
- Extendible (a lot of R packages)
- A dynamic community

Data analysis, data visualization, statistical analysis, machine learning, ...







for data analysis

year	month	day	dep_time	arr_time	origin	dest	air_time
2013	1	1	517	830	EWR	IAH	227
2013	1	1	533	850	LGA	IAH	227
2013	1	1	542	923	JFK	MIA	160
2013	1	1	544	1004	JFK	BQN	183

for data analysis

	year	month	day	dep_time	arr_time	origin	dest	air_time	
	2013	1	1	517	830	EWR	IAH	227	
	2013	1	1	533	850	LGA	IAH	227	
	2013	1	1	542	923	JFK	MIA	160	
df %>%	% filter(c	rigin ==	"JFK	", (dest ==	"FLL" d	est ==	"ORD'	'), month	== 12)
%>	>% ₂ ergu	up_by(de	est)	544	1004	JFK	BQN	183	
%>% summarize(mean=mean(air_time, na.rm=TRUE))									

for data analysis

	year	month	day	dep_time	arr_time	origin	dest	air_time	
	2013	1	1	517	830	EWR	IAH	227	
	2013	1	1	533	850	LGA	IAH	227	
	2013	1	1	542	923	JFK	MIA	160	
df %>%	filter(origin ==	= "JFK	(", (dest ==	= "FLL" c	dest ==	"ORD"), month	== 12)
%>9	[%] ୍ଥ୍ୟାନ୍ତ୍ର।	u p_þy (d	est)	544	1004	JFK	BQN	183	
%>% summarize(mean=mean(air_time, na.rm=TRUE))									

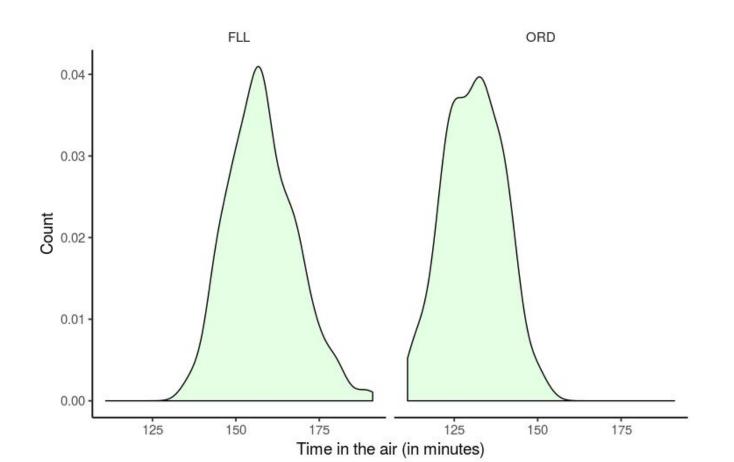
df

for data analysis

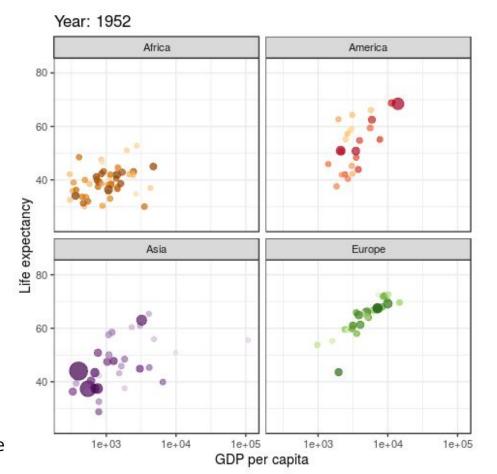
	year	month	day	dep_time	arr_time	origin	dest	air_time	
	2013	1	1	517	830	EWR	IAH	227	
	2013	1	1	533	850	LGA	IAH	227	
· %>%	2013 filter (c	1 oriain ==	1 = "JFK	542 ", (dest ==	923 = "FLL" c	JFK dest ==	MIA "ORD	160 "). month	== 12)
%>9	%2 gr3 0	u p_by (d	esţ)	544 =mean(air	1004	JFK	BQN	183	,

1 FLL 158 2 ORD 131

for data visualization



for data visualization



for impressionist artwork

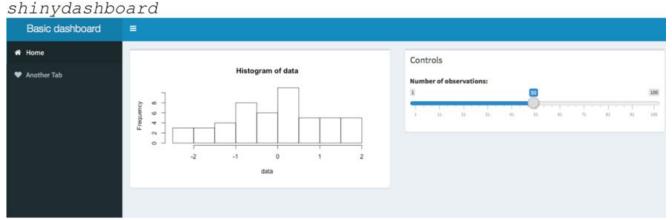


for impressionist artwork

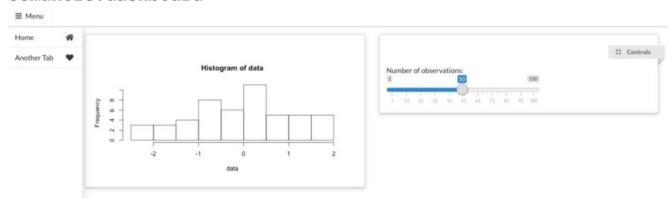




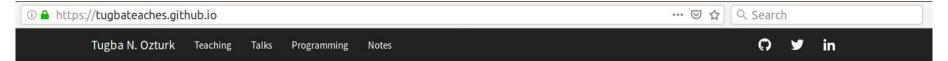
Why learn R? for web applications/ dashboards



semantic.dashboard



for making personal websites





Hello.

I'm a PhD candidate in Physics at Concordia University. I work on molecular modelling of membrane proteins – yes, I am one of those physicists who are supposed to show you a movie of a protein jiggling in the middle of their talk. I love computational biochemistry/biophysics, coding (especially with R and Python!), teaching & learning and talking about any of these topics!

I graduated from the Koc University with a MS in Computational Sciences and Engineering in 2014. Same year, I started my PhD in Physics at Concordia University, where I am working on molecular modelling of ion channels and trasporters under the supervision of Dr. Guillaume Lamoureux at Rutgers University–Camden. I expect to graduate this year.

My full CV is available here.

A quick note about my website: I have built this website using the amazing tutorial by Emily C. Zabor ♥. I like generating documents (tutorials, presentations, websites) with R. I also like the fact that there is an R package called tinytex – I think it's cute.



For text mining, geocomputation, statistical analysis, machine learning, etc.

Visit bookdown.org for online books.

How to learn R?

How to learn R?



- Local resources:
 - GradProSkills workshops (GPDI 515 and GPDI 517)
 - RLadiesMTL meetups!

How to learn R?

- Local resources:
 - GradProSkills workshops (GPDI 515 and GPDI 517)
 - RLadiesMTL meetups!
- Online resources:
 - Online courses (Coursera, EdX, DataCamp, Udemy)
 - Tutorials (Youtube, RStudio, GitHub)
 - Twitter (@hadleywickham, @jennybryan, @juliasilge, @dataandme, @RLadiesMTL)
 - Blogs (r-tutor.com, r-bloggers.com)

R for Psychology

- Learning Statistics with R
- Course notes for Psychology Statistics
- R-bloggers' suggestions for researchers in psychology (including lecture notes, mailing lists, online books and workshops)
- Popular websites:
 - https://rpsychologist.com
 - https://personality-project.org/r

Thank you!