

DeCAIR Training Course: Advanced Data Science

Prerequisites: having participated in the previous course of “introduction to data science” or have basic knowledge of machine learning and data science. It is also recommended some knowledge of Python.

Theory and Practical (20 h)

Monday, May 23, 2022

09:00-12:00 – Supervised learning with Python (3h) – Daniel Molina

12:30-14:30 – Data preprocessing with Python (2h) – Germán González

Tuesday, May 24, 2022

09:00-11:00 – Data preprocessing with Python (2h) – Germán González

11:30-14:30 – Unsupervised learning with Python (3h) – Daniel Molina

Wednesday, May 25, 2022

09:00-14:30 – Time Series with Python (5h) – Manuel Pegalajar

Friday, May 27, 2022

09:00-11:00 – Learning from imbalance data with Python (2h) – Alberto Fernández

11:30-14:30 – Singular learning problems with Python (3h) – Salvador García

All the sessions combine theory and practical lessons. There will be videocommunication for on-line attendants.

Material

All the software and data will be provided by the instructors. The attendants have to bring a laptop with Windows, MacOS or Linux.

Venue

School of Technology and
Telecommunications Engineering

<https://etsit.ugr.es/en>



<https://goo.gl/maps/8N1zEYajC9k>



Classroom -1.2 (floor -1, near to the coffee shop)

Internet



SSID: cviugr

User: ads@invitados.ugr.es

Password: UGR22+DATA

Firstly, connect to “cviugr”, then open a browser and go to an internet address, then you will be asked to introduce the credentials and, after that, you can use protocols http/https.

For a permanent connection and access to all protocols, you can connect to “eduroam”, but first you will need to install a software and then introduce the user and password provided: <https://csirc.ugr.es/informacion/documentos/tutoriales/wifi-eduroam>

The School is far from the city center, although Granada is a small city and this really represents a distance of 45 minutes walking from the center. The School is well connected by bus and tram. The best advice is to install [Citymapper](#) (preferable) or [Moovit](#) apps and let you be guided by them.

Bus stops:

Lines 4 and 9: <https://goo.gl/maps/jSLi26KDrN5TBUXv6>

Line N3: <https://goo.gl/maps/QFNhASzNgnjLUp3b9>

Tram:

<https://goo.gl/maps/kt1Tao3cKvozATX69>

Lunches

Right next to the classroom, within the School, there is a university canteen (<https://scu.ugr.es/>), with good quality and good price (€3.5) because it is partially supported by the university, we recommend to have the lunch there at 14:30 after finishing the classes. If you want to try other places outside the School, please ask and we will propose other places, but the offer around the School area is not so complete (though there are some of good quality) as in the city center. Trying to have the lunch in the city center might be too late, as most of restaurants close kitchen about 4pm.

Accommodation

As there are not classes afternoon, it is preferable to be accommodated at the city center (near the cathedral), where the offer of tourist attractions, cultural events, monuments, sightseeing, restaurants, shops, etc. is richer. Please, do not hesitate to contact us if you want to confirm an accommodation you are interested on. The offer of hotels and touristic apartments is very rich, check yourself at <https://www.booking.com/> or <https://www.airbnb.es/>.

To decide if the accommodation is well connected to the venue, you can check if it is close to bus lines 4, 9 or N3, tram stops, or the transfer is easy; the best trick is to simulate the trip with the above-mentioned apps or check this:

<http://www.movilidadgranada.com/autobuses.php> and <https://metropolitanogranada.es/>

Arriving to Granada

If you come from Madrid or Malaga, you can choose either coaches (<https://www.alsa.com/en/web/bus/home>) or train (<https://www.renfe.com/es/en>) to reach Granada. The coaches are very comfortable, even better if you choose premium lines.

Bus station of Granada: <https://goo.gl/maps/ZGe8AYTpSWqrE6CDA>

Train station of Granada: <https://goo.gl/maps/6C4dvxCxMZyL8MB76>

If you land at Granada's airport, you can choose taxi (fixed fare of €27, about 25 minutes trip) or bus (<https://www.alsa.com/en/web/bus/airports/granada-jaen>) to city center.

Contact: Jorge Casillas, casillas@decsai.ugr.es, +34 656532369

Social dinner (Monday, May 23)

Dinner will be on Monday, **May 23, 8.30pm**, at the gardens of Carmen de la Victoria:

<https://goo.gl/maps/BFTULZ3R8rn7f4A26>

You can reach it by foot (best option, through a nice walk by Carrera del Darro and Paseo de los Tristes), by taxi or bus (C31/C32/C33). Ask your friend [Citymapper](#)!

Carmen, from the Arabic karm (vineyard), is the name given in Granada to the pleasure gardens on the outskirts of the city. The *cármenes* are typical estates of the historical neighborhoods of Granada, heirs of the delightful orchards that the Arabs of Granada owned in the outskirts of the city. Today they are domestic gardens that maintain an old tradition of pleasant retreat for their owners.

El Carmen de la Victoria, one of the most famous of the city, was acquired by the University of Granada in 1945.

Do your homework and watch this video before dinner 🕒 <https://youtu.be/FUnunSfJSBo>

Guided visit to Alhambra (Thursday, May 26)

Guided visit to Alhambra and Generalife will be on Thursday, **May 26, 3.15pm**. Tickets will be provided on Monday. **IMPORTANT: bring your passport with you for the visit, you will have to show it.** Meeting point with the guide (who is named Óscar) at 3.15pm close to Palacio de Carlos V, next to the restrooms: <https://goo.gl/maps/xs8sNLoZrHdz7kM97>

To reach it, you can walk from Plaza Nueva up the Cuesta de Gómez. *Cuesta* means slope, so the one km of distance from Plaza Nueva can take about 20 minutes, but it's worth the walk.

You can also go by bus (C30/C32), use the [Citymapper](#) app and choose as destination "Puerta de la Justicia" (C. Real de la Alhambra, 18). And, of course, by taxi. Uber also operates in Granada.

Other activities

- Summary of places to visit and things to do in Granada: <https://www.lovegranada.com/granada/things-to-do/>
- The flamenco cycles at La Chumbera is an excellent option. Impressive auditorium with views, characteristic location, local artists of a certain quality, authentic shows. Days 21, 27 and 28 of May. Book here: <https://www.conciertosengranada.es/locales/teatro-municipal-la-chumbera>
- Flamenco at a *zambra gitana*. OK, very touristic, only for "guiris" (as we say in Spanish to refer to foreigners), but unique and interesting. The gypsy zambra was born in Sacromonte (Granada), in the caves of the gypsies. This flamenco song and dance was inspired by the Muslim weddings in the city. Recommended place Cuevas Los Tarantos: <https://www.mireservaonline.es/en/services/flamencozambracuevaslostarantos.aspx>
- Find the Hammam Experience in the Andalusian Arab Baths. Feel the Journey of Water, massages, rituals and experiences to connect with your Inner Nature. <https://granada.hammamandalus.com/en/>

Some places to eat

The list would be endless. Ask us if you are looking for something specific or in a specific place. Here are a few suggestions.

Lemon Rock (€) (<https://lemonrockgranada.com/>)

It is a pub and restaurant. Very trendy, always lively, with good music and food. <https://g.page/lemonrockgranada?share>

Los Diamantes (€)

All the flavor of the Mediterranean in tapas and portions that will not leave you indifferent. Discover the fish always cooked like never before. Prawns, anchovies, clams, squid, dogfish... are waiting for you in our bars and restaurants. There are several of them in Granada with equal quality of the food, but the most convenient is the one in Plaza Bib-rambla: <https://goo.gl/maps/6yHJPfEPu1sm9cac9>

Restaurante Maese Pío (€€)

Considered by many as the best rice restaurant in Granada, they offer an extensive menu of Levantine rice dishes prepared according to traditional methods by chefs Juan Casares and Gabriela Tita. They have paella specialties, such as *arroz a banda* and *calderetas* with meat or seafood. A perfect place for the rice lover. <https://g.page/maesepioarroceria?share>

Puesto 43 (€€)

Nice terrace to eat outdoor in a square, fresh fish, great food, what else you need! <https://goo.gl/maps/zpnJNr2eh93ihXUNA>

Mesón Botafumeiro (€€)

Near the City Hall of Granada is this restaurant where the specialty of the menu is the typical food of Galicia (northwest Spain). Among their meats and fish, they have a section in their menu dedicated exclusively to rice dishes. At the same time, it has a good variety of Galician dishes that will delight octopus lovers.

Carmen Aben Humeya (€€€)

This restaurant has the peculiarity of having a panoramic view of the Alhambra. Its privileged location in the Albayzín neighborhood makes lunch or dinner in its gardens a pleasant experience. As for the gastronomic offer, the chef creates dishes depending on the season. As for the rice dishes, there are several that are out of the ordinary, creating more exotic flavors worthy of tasting. <https://g.page/romanticgourmet?share>

El Claustro (€€€)

For an unforgettable dinner of haute cuisine, or simply for a mid-afternoon coffee, do not miss it, you will find the best peace and quiet in the center of the city. <https://goo.gl/maps/5Dns186JEBzQxYieA>

Carmen de la Victoria (dinner, Monday May 23, 8.30pm)



Dinner menu at Carmen de la Victoria

Dinner will be standing in the gardens in order to encourage conversation and networking. There will be high tables and food served on trays by waiters. Benches are available for those who wish to sit down. The entire menu is pork free.

APPETIZERS

[Manchego](#) cheese wedges

Foie delights

Smoked cod and sturgeon roe toasts

Tapa of potato omelette ([Spanish tortilla](#))

TAPAS

Canapé of guacamole with peppers and anchovies salad

Chicken skewers with vegetables

[Montadito](#) (small sandwich) of smoked duck magret with tomato vinaigrette

Small glass of [salmorejo](#) with basil oil (without ham)

Boletus croquettes

Hake with garlic-parsley and lemon

Spoonful of octopus

DESSERT

Cheese cake

DRINKS

Red wine ([Ribera del Duero](#)), white wine ([Rueda](#)), beer, soft drinks, water.

Price per person: €36.50 (VAT included)

Guests are informed that the beverage service associated with the Buffet will end 10 minutes after dessert is served.

Dinner's attendants:

1. Alaa Daher
2. Ayman Mohammad Odeh Mansour
3. Ahmad Aljaafreh
4. Murad Mohammad Alaqtash
5. Omer Maaith
6. Jafar Jameel Mohammad Abukhait
7. Ramzi Rajeh Ahmad Saifan
8. Iyad Jafar
9. Gheith Ali Ibrahim Abandah
10. Mohammad Rajab A. Abdel-Majeed
11. Ashraf Emad Jobran Suyyagh
12. Adham Yaseen Mohammad Alsharkawi
13. Salvador García
14. Manuel Pegalajar
15. Daniel Molina
16. Siham Tabik
17. Jorge Casillas