27-28 MAY 2024

YOUR FUNCTIONAL PROGRAMMING GUIDE



AFTER THIS THERE IS NO TURNING BACK



Welcome

to Lambda Days 2024! We have put together this handy guide to help you plan your trip!

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Book a room

We managed to secure rooms at a special B&B rate per night for Lambda Days guests at the hotels below:



HYATT PLACE KRAKOW ****

Aleja 3 Maja 47a, 30-062 Kraków

PRICES:

-20% off the full price published on the hotel website

To book and get an attendee discount remember to contact krakow.place@hyatt.com using the password "LAMBDA DAYS"

HOTEL UNICUS ****

ul. Św. Marka 20, 31-020 Kraków

PRICES:

-20% off the full price published on the hotel website

To check the attendee price and book contact recepcja@hotelunicus.pl using the password "LAMBDA DAYS"





Welcome to Kraków

Welcome to one of the most beautiful cities in Poland, known for its well-preserved medieval architecture, artsy vibe, student life, excellent restaurants but also quickly developing IT sector and vibrant FP communities.

Moving around

FROM KRAKOW AIRPORT

Best way to get from the airport to the venue, apart from taxi or Uber, is to take the fast train (17 min) to the Krakow Main Station ("Krakow Główny"). Current departures of the trains and buses are presented on the screen located in front of the arrivals gate. To get to the train station take escalators to the 1st floor and go through a footbridge above the road to the multi-store car park. Trains are equipped with air conditioning, power outlets, Wi-Fi and ticket machines. More information can be found on krakowairport.pl website.

AROUND KRAKOW

When in Krakow centre, you can move around by taxi, Uber, Bolt etc. or public transport, which is quite reliable. Use jakdojade.pl for timetables and buying tickets. You can also use google maps (public transport search) and buy tickets at the machines on selected stops or selected vehicles.

PARKING

Street parking in the centre is available along the edges of roads and on some sidewalks where marked and it must be paid Mon-Sat 8:00-20:00 via app or at the ticket machine. The more comfortable solution is to use the centrally-located public parking lots, such as "Przy Muzeum", Al. Mickiewicza 18 - an underground parking garage in front of the main branch of the National Museum, within walking distance to Lambda Days venue.



Cafés & Restaurants

Here is the list of the best coffees and restaurants in the vicinity of Lambda Days venue according to our team:

GOOD COFFEE & BREAKFAST

- Tektura Cafe (Krupnicza) best coffee and alternative coffee in the area
- Café Lisboa (Dolnych Młynów) quaint, low-key venue specializing in Portuguese egg custard tarts
- Tektura (Krupnicza) for simple breakfast (vegetarian) opens at 7.00am
- Astrid (Batorego) a bit further but worth it Nordic breakfast/brunch concept food and if it's full, Kaffee Bageri around the corner is best for fika

GOOD FOOD

- Dynia Resto Bar (Krupnicza) colourful, family-friendly with a garden and menu of global dishes never disappoints
- Mazaya (Krupnicza) Syrian bistro with perfect falafels, hummus and delicious tea. Very good wraps to go.
- Molám (Dolnych Młynów) the best Thai original place and cool atmosphere. Small menu that changes regularly
- N'Pizza (Dolnych Młynów) an elegant but chilled place with very good Italian pizza and prosecco
- My Korea (Rajska) shop and bistro where you can eat a corndog, tteokbokki or kimbap at the counter
- Morskie Oko (pl. Szczepański) delicious Polish cuisine in a traditional/cottage style
- Kluska na Placu (pl. Szczepański) fresh look at Polish, but most of all Silesian cuisine - you have to try those Silesian dumplings with beef roulade
- Kinki Ramen (Piłsudzkiego) tastes of Japan on the highest level, vegan options and pleasant interior

GOOD BEER

Multi Qlti Tap Bar (Szewska) - the closest cool bar with craft beer and fries



Places to visit

If you arrive earlier or would like to stay longer, here are our recommendations on what you can see in Kraków:

 Rynek Underground Museum - located under the Main Square, mixes cool technologies and archaeological discoveries to tell a story of the past.



foto: Magiczny Kraków

 Wawel Hill - a short walk from the Main Square, worth climbing on for the amazing view and vibe. Don't forget to check out the Dragon's Den and next to the river, the Dragon that gets thirsty every 3-4 minutes!



 Hala Forum - have a nice summer walk on Vistulan Boulevards starting near the Castle and ending in Forum, a cool, very popular leisure place with bars, good food & coffee choices, and an amazing view of the city and river. Great for chilling with friends, though crowded during weekends.



foto: Paweł Okuniewicz

 Pubs and restaurants near Plac Nowy in Kazimierz, the Jewish quarter, 20 min from Main Square. Spiritual and bohemian centre.
 "Zapiekanki" from the rotunda in the middle of the square is a legendary Krakovian street food you should try when hungry.

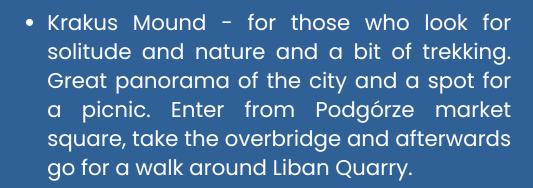






DO YOU HAVE MORE TIME FOR SIGHTSEEING?

- Wieliczka Salt Mine if you have a free day, take a train or bus (20-30 min) to Wieliczka and book a tour of mines – discover the amazing underground world with lakes and chapels built by miners.
- Schindler's (yes, the one who made the List) Factory in our opinion the best exhibition/museum in Kraków showing how everyday life was disrupted by nazi occupation. Very moving, and very well designed. Save 2-3 hours for it.



 Nowa Huta - an area of Krakow, a masterpiece of socialist-realist urban planning and Communist architecture in the north-east of the city. We recommend sightseeing with <u>Crazy Guides</u>, who'll take you down into the old nuclear fallout shelters and on a ride in a vintage Trabant automobile.





foto: Muzeum Historyczne Miasta Krakowa





Foto: Piotr Tomaszewski-Guillon / dronographyapplied.com

Events to attend



foto: Robert Słuszniak / FMF

22-26 May - 17. Film Music Festival - one of the best festivals dedicated to soundtracks from movies and video games. Live orchestral concerts to the iconic and new scores, guest composers, meet & greets and more!



First Time at Lambda Days?

Don't worry, we have your back! We love new members of the community! We've prepared a FAQ document on the Lambda Days website that will help you with questions like what should I wear, eat or should I prepare at all? Before and during the event, don't hesitate to ask us and the volunteers any questions.

We recommend downloading the conference mobile app Nunify before the event (expect more information a week before the event), where you will find lots of useful tips, floor plans, agenda, notifications from organisers etc. You can also suggest meetups and meetings, chat with other attendees and make new friends before the conference starts.

If you're unsure which talk to attend, we hope the "Beginner-friendly" tag visible on the website and conference appagenda will help you.

Name Badges

For those, who are shy or just introvertic, we've added a special section on the name badges where you can write a conversation starter tip for other attendees who approach you. It doesn't have to be about programming for example it can be your favourite show or your pet!



Agenda - Day 1

DAY 1	27 MAY 2024	Monday				
08:00 - 09:00	REGISTRATION					
· .	AULA DUŻA A	AULA ŚREDNIA A	AULA ŚREDNIA B			
09:00 - 09:30 WELCOME! KEYNOTE: Applying Task-Oriented Functional Programming for developing Real-world Multi-user Web-Applications / Rinus Plasmeijer						
10:20 - 10:50		COFFEE BREAK				
10:50 - 11:35	How does a programmer think about code? / Szymon Rodziewicz	An Effect-ful functional framework for TypeScript / Alberto Schiabel	Lessons learnt from writing 10k LOC in Elm / Sophie Collard			
11:40 - 12:25	Gradualize your language with set-theoretic types / Guillaume Duboc	Define your own rules: dynamic system behavior control at runtime / Veronika Yastrebova	Far more than you've ever wanted to know about ADTs / Nicolas Rinaudo			
12:25 - 13:30		LUNCH BREAK				
13:30 - 14:15	David Turner Memorial Session / John Hughes, Simon Thompson, Lennart Augustsson, Jeremy Gibbons (online)	Embedding of external DSLs in Scala: why and how! / Juan Manuel Serrano Hidalgo	SAFE Stack: The Pit of Success for Functional Web Programming / Isaac Abraham			
14:20 - 15:05	Bidirectional Data Transformations with Functional Optics / Marcus Crestani	Lustre Universal Components: the best of Elm and Phoenix LiveView / Hayleigh Thompson	fast - grepping SQL code like a boss / Jônatas Paganini			
15:10 - 15:30	Imagine a Dependently Typed Python / Andor Pénzes	The Y Combinator: developing intuition around abstract recursion / Dave Kimber	Declarative UIs in a functional language / Felipe Almeida Lessa, Hidde Verstoep			
15:30 - 16:00 COFFEE BREAK						
16:00 - 16:20	Types and other techniques as an accessibility tool for the ADHD brain / Michael Newton	Code in Unison / Daan van Berkel	My First Year in FP / Monica McGuigan			
16:25 - 16:45			From 1 to 100k users: Lessons learned from scaling a Haskell app / Felix Miño			
16:50 - 17:40						
17:40 - 17:50	CLOSING NOTES					
18:00 - 21:30 AFTERPARTY at the N'JOY & Billard (Bracka 4, 2nd floor)						



Agenda - Day 2

DAY 2	28 MAY 2024	· Tuesday			
08:30 - 09:00	REGISTRATION				
	AULA DUŻA A	AULA ŚREDNIA A	AULA ŚREDNIA B		
09:00 - 09:10 09:10 - 10:10 10:05 - 10:50	WELCOME! KEYNOTE: Algebraic Effect Handlers w / Ningning Xie Lightning talks	vith Parallelizable Computations	\$\$ \begin{align*}		
10:50 - 11:20		COFFEE BREAK			
11:20 - 12:05	in SerenityOS w	The Functional Edge: Robotic Testing with Bowler Studio and Clojure Thomas Gebert	Automata Unveiled: A Theoretical Exploration of State Machines / Nelson Vides		
12:10 - 12:30	formally verify a not-slow	Media streaming in the functional world Mateusz Front	Cellular Automata for video games / Maciej Gorywoda		
12:30 - 13:30		LUNCH BREAK			
13:30 - 14:20	KEYNOTE: The Two Cultures of Artifical Intelligence / Philip Wadler				
14:25 - 15:10	of embedded Domain Specific v	Functional Platform Engineering with Scala and Pulumi Lukasz Biały	The Power of Mentoring: Nurturing Growth in the IT Industry - panel discussion / Monica McGuigan, Sophie Collard, Maciej Gorywoda, Jônatas Paganini, Nicolas Rinaudo, Anna Miler		
15:10 - 15:40		COFFEE BREAK			
13:10 - 15:40		COITEE BREAK			
15:40 - 16:00	Violations with Property-Based V Testing c	Well-typed Programs Can Go Wrong: Enhancing the Reliability of Type Checkers in Compilers Thodoris Sotiropoulos	A Scientific Document Management System (Elm + Lamdera) / James Carlson		
16:05 - 16:55	KEYNOTE: Programming for the planet / Anil Madhavapeddy				
33 6					
16:55 - 17:10	CLOSING NOTES				



Remembering David Turner

WHEN: Monday, 27 May at 13:30

WHERE: Aula Duża (track 1)

WHO: <u>Lennart Augustsson</u>, <u>Jeremy Gibbons (online)</u>

hosts: John Hughes, Simon Thompson

Late last year, David Turner, a giant of our field and regular Lambda Days participant, passed away unexpectedly. Many may remember chatting to him in the coffee breaks—he was one of the nicest people you could hope to meet. Join us while we will recall the man, what he meant to us personally, and some of his most influential work.

David was an advocate of functional programming back when Fortran and Cobol ruled the roost of high-level programming languages. He created <u>Miranda</u> language (1985), which became the first "lazy", purely functional language to be commercially supported.





The Power of Mentoring

WHEN: Tuesday, 28 May at 14:25 WHERE: Aula Średnia B (track 3)

WHO: Monica McGuigan, Sophie Collard, Maciej

Gorywoda, Jônatas Paganini, Nicolas Rinaudo;

host: <u>Anna Miler (DareIT)</u>

Join us for an engaging conversation where we'll explore essential aspects of mentoring, particularly within the tech landscape – the empty chair is waiting for you to grab when you want to share!

Some of the questions we would like to ask ourselves are:

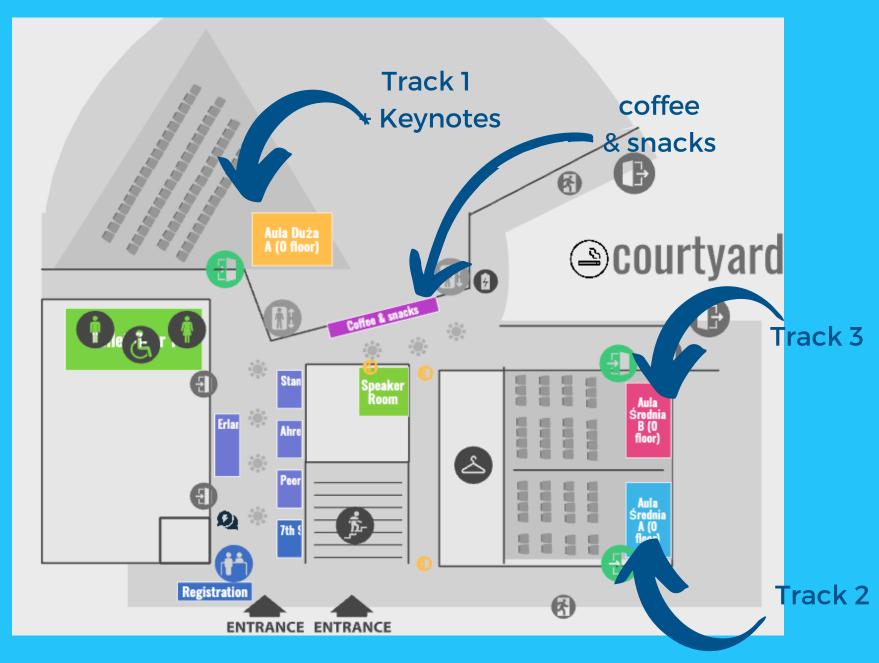
- * how can mentors support mentees in developing technical and interpersonal skills?
- * how mentoring can address the unique challenges faced by underrepresented groups and help create an inclusive technology community?
- * structured programs vs. informal mentoring: what are the pros and cons of both ways of experiencing mentoring?

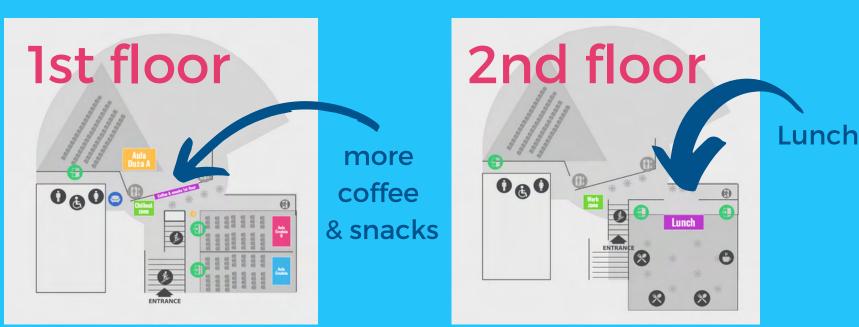




Venue Map

Ground floor







Afterparty



Informal drinks and nibbles will be available from 6:00 PM on Monday, 27 May on Bracka 4 Street.

After the first day of the conference, we invite all the attendees to N'JOY & Bilard | Bracka 4 (2nd floor), an exciting spot just next to the Main Square!

Expect informal drinks, nibbles, good company and more discussions about the functional world. It's a 15-minute walk from the venue through Krakow's Old Town. We hope to see you there!



Scan the code for the address.

Bring your conference badge!







Can You Spot it?

On the way to the party play the Scavenger Hunt game (to be found it in the conference app) and finalize the tasks. At the entrance to the afterparty show your achievement - we have goodies for those who complete it!



















Lambda Days was brought to you by Code Sync, a team behind tech conferences bringing people together to facilitate a debate on Erlang, Elixir, the BEAM ecosystem and functional programming.

Check out all of our events: <u>codesync.global</u>



- -> Code BEAM Lite:
- 13 May, Stockholm, Sweden
- -> Code BEAM Europe:
- 14-15 October, Berlin, Germany
- -> Code BEAM America:
- 6-7 March 2025, San Francisco, CA, USA



ElixirConf EU 🚫



15 October, Berlin, Germany

15-16 May 2025, Kraków, Poland



Let's stay in touch!







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