



# Dr. Bence Mátyás, PhD

startup trainer, business mediator,  
university lecturer

## PROFILE

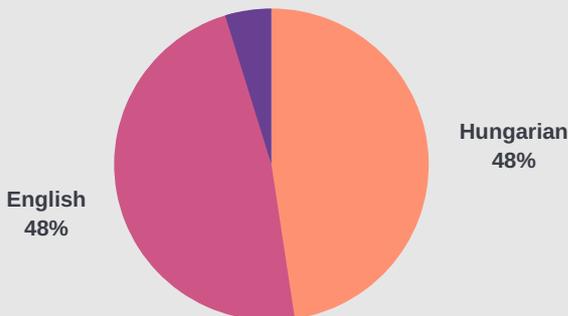
I have 6 years experience in coworking and startup-mentorship on an international level.

## PERSONAL DATA

Name: Bence György Mátyás  
Born: 07.18.1989  
Nationality: Hungarian

## Languages

Spanish  
5%



## CONTACT

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0984454050

## EDUCATION

### PhD Research Scholar (Soil Science)

University of Debrecen, Hungary (2013-2017)

- Research topic: Comparative evaluation of some microbiological soil properties related to the soil carbon cycle

### PhD Research Scholar (Environmental Sciences)

Central University of Nicaragua - European Programmes, Austria (2013-2016)

- Dissertation: A novel database management logic designed for some important production stages of farm to table

### MSc in Environmental Management on Agricultural Engineering

University of Debrecen, Hungary (2011-2013)

- Thesis: Biogas production optimising by DSS

### BSc in Agricultural Information Technology and Policy Administration Engineering

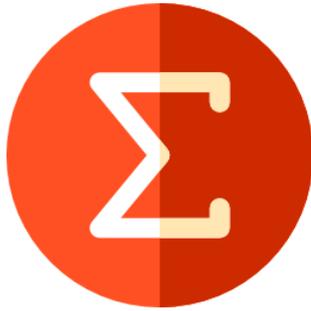
University of Debrecen, Hungary (2008-2011)

- Thesis: GIS modelling fruit orchards using ArcGIS

Accredited certification in DNA based species identification University of Debrecen, Hungary (2015)

Accredited certification in Rapid bacteriological examination University of Debrecen, Hungary (2015)

# Brief Summary of my Working Experience



## University lecturer

2013-2016 dec.

At University of Debrecen, I designed and registered my own course (non relational database management). Furthermore I was teaching the following subjects: - Bigdata management, -Soil chemistry, -Soil microbiology, - Sustainable development.

## Guest Researcher

2013

I earned a research scholarship by Chiba University. I spent 4 months at Matsudo Campus, Chiba University in Matsudo, Japan. We were examining the effect of the climate change on some soil greenhouse gases emission as methane, nitrous-oxid and carbon-dioxid. I was responsible for the correlation analyses and for the database management system development.

## Startup Trainer

2015 Dec.- 2017

I became a founding member of Enterprise Development of University of Debrecen NGO. The organization was established by 16 successful entrepreneurs including the head of DG Research at Richter Gedeon. We connect innovative idea owners from the university with market leading organizations and investors like Oracle, National Instruments or Morgan Star Group. I mediate and train the startup representatives to deliver professional pitches and discussions with investors.

## GIS engineer

2013-2014

I was responsible for each water runoff plans at VII. Sand Mind in Miskolc, Hungary. I was working as a Project leader so I was responsible for organising the engineering activities and the land works as well. During the time in which we completed the engineering and implementation I discussed with the governmental and local authorities.

## CEO

2011-2016

In 2011 I established my first startup called Joker Tao. We designed a logic that ensures NoSQL mechanisms on SQL platforms. After participating in many international startup competitions I learnt how to design a professional elevator pitch. At 2016 we sold 17 frameworks that were based on our technology. At December of 2016 we successfully exit our startup to China.

# References

**Julio César García** (Dirección de Emprendimiento e Innovación)  
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(Asesor de Emprendimiento e Innovación)  
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**Dr. Javier Herrán Gomez** (Rector)  
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(593) (7) 2862213 ext. 1100

**Juan Pablo Salgado**  
(VICERRECTORADO DE INVESTIGACION RECTORADO)  
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# Working Experience

## Business mentor, startup trainer

**Innopolis YACHAY, Quito- coworking office (2017)**

I mentor and train startup representatives to deliver professional pitches and discussions with investors. I teach:

- Business communication skills,
- Basics of Pitching
- Startup and general business jargon words
- Public speaking
- Business English

I established an elevator Pitch course for the most ambitious startup representatives mentored by Yachay.



## Business mentor, public speaker

**Universidad Politécnica Salesiana (2017)**

I was invited as public speaker and business mentor for the reCréate 2017 and RETHOS startup congresses (Cuenca, Guayaquil, Quito) designed by UPS and Integrar co. I taught the followings to the innovators:

- How to design a professional elevator pitch
- Basics of the business discussion
- Global issues that the innovators have to face with

Spurred on by the success I was invited to the Rethos startup bootcamp 2017 -UPS as a business mentor.

Currently I am mentoring 5 Ecuadorian startups sponsored by UPS and Innopolis Yachay and coordinate the investing events from Morgan Star Group (Chinese Investment Group) and the Innovation Department of Hungarian Embassy in Tel Aviv, Israel

## References

**Dr. József Gályász** (Co-founder,  
Head of the Business and  
Management Sciences Department,  
University of Debrecen)  
galyasz.jozsef@econ.unideb.hu  
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**Mr. Csaba Domán** (Co-founder,  
CEO of KEEPS-Finance Ltd.)  
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**Prof. Dr. Károly Pethő** (Dean, Faculty of Economics,  
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**Dr. Gergely Hunyadi** (supervisor,  
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**Dr. Lili Mézes** (supervisor, Institute  
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## Working Experience

### Co-founder, startup trainer

#### Enterprise Development of University of Debrecen NGO (2015 dec.- 2017 jan.)

We connect innovative idea owners from the university with market leading organizations like Oracle or National Instruments, Morgan Start Group. I began managing technological startups. Currently, I train startup representatives to deliver professional pitches and discussions with investors. In 2016, 3 startups mentored by us gained successfully seed capitals, 4 of them emerged onto recognised international innovation competitions and 5 enjoy the benefits of mentoring by market leading organisations (Oracle and National Instruments).



### University lecturer

#### University of Debrecen (2013 - 2016 dec.)

As the youngest lecturer at the University of Debrecen, during the time which I completed my PhD studies I designed and registered my own course (non relational database management) as a 2 credit subject for MSc and PhD students.

Furthermore I was teaching the following subjects:

- Bigdata management,
- Soil chemistry,
- Soil microbiology.
- Sustainable development
- Biogas production

My experience includes dealing with students from diverse backgrounds, ages and qualifications. I have taught Hungarian, Ecuadorian and other foreign BSc, MSc and PhD students in Hungarian and English languages. My desire to engage, challenge, and inspire growth in my students is not limited to the classroom

# References

**Mr. Sándor Kulcsár** (CEO, Hejő-TRANSZ Ltd.)  
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**Prof. Dr. Kazuyuki Inubushi** (Chiba University · Graduate School of Horticulture · Soil Science Japan · Matsudo, Chiba)  
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# Working Experience

## Project leader, GIS engineer

**Statik Kontroll Ltd. and HEJŐ-TRANSZ Ltd. (2013 jan.- 2014 dec.)**

I was responsible on behalf of Miskolc Mining Inspectorate for each water runoff plans at VII. Sand Mind in Miskolc, Hungary.

I was working as a Project leader so I was responsible for organising the engineering activities and the land works as well. During the time in which we completed the engineering and implementation I discussed with the governmental and local authorities.



## Research Scholar

### Chiba University (2013)

I earned a research scholarship by Chiba University. I spent 4 months at Graduate School of Horticulture - Soil Science Institute, Matsudo Campus, Chiba University in Matsudo, Japan. We were examining the effect of the climate change on some soil greenhouse gases emission as methane, nitrous-oxid and carbon-dioxid. I was responsible for the correlation analyses and for the database management system development.

We published our results in the following papers:

- Mátyás, B., Mátyás, Gy., Horváth, J., Kátai, J. (2015) Data storage and management related to soil carbon cycle by a NoSQL engine on a SQL platform - Joker Tao, Journal of Agricultural Informatics, 6 (3): 67-74, doi: 10.17700/jai.2015.6.3.201
- Matyas, B., Matyas, Gy., Szendrei, M., Singla, A., Kong, Y., Katai, J., Olah, A.Z., In- ubushi, K. (2015) Development of four columns data storage model for data-manipulation of greenhouse gases and soil properties, Sustainable Agriculture Research, 4 (4): 115-121, doi: 10.5539/jfr.v4n4p115
- Matyas, B., Matyas, Gy., Szendrei, M., Singla, A., Kong, Y., Katai, J., Olah, A.Z., In- ubushi, K. (2014) Data manipulation of correlations between soil properties and GHG emission. Book of proceedings, Soul of Soil Congress, 583- 588

# Working Experience

CEO at Joker Tao (2011-2016)

## Research and Development statement



ID	ATTRIBUTE	VALUE
1	1	NAME
1	3	4
2	1	SIZE
2	3	5
3	1	DATA TYPE
3	3	7
3	8	4:5:6:7
4	1	ALFA
5	1	NUM
6	1	DATE
7	1	CODE
8	1	LIST
300	1	TYPE = MELANOMA

The majority of my current research applies to real system developments in cloud to test a novel database management logic that ensures NoSQL data storage on SQL platforms. We designed a database management logic that provides an opportunity to store and interpret each data (namely entities, attributes and their values) in only one data table while the data handling processes can be completed by SQL commands. This model contributes to the interoperability between the relational and non-relational systems on a physical data storage level where converting application usage is unnecessary. This represents significant savings for the research institutes and companies which use steadily increasing number of data tables.

### Current focus

Databases which store and manage long-term scientific information or bigdata are used to store huge amounts of quantitative attributes. Introduction of a new entity attribute requires modification of the existing data tables and the programs that use these data tables. One possible solution is increasing the virtual data tables while the number of screens remains the same. The main objective of my research is to introduce a logic which provides universal data storage for cloud-based databases. It means all types of input data can be interpreted as an entity and attribute at the same time, in the same data table.

### Importance

Using the developed coding mechanism, each attribute needs only one index for indexing in the database. It allows any data whether entity, attribute, data connection or formula, to be stored and managed even under one physical data table. Thanks to this flexibility, a formula which is stored in a database can be utilised for problem solving in another field regardless of the difference in data storage method used in the present environment. In this data model, the entity and the attribute are used interchangeably, so users can expand the database with new attributes after or during the development process.

### Future utilisation

The developed model contributes to building a universal platform where the data and their relationships from different databases can support each others systems. With the further development of the logic there is a significant chance to make software compatibility. The different softwares will be able to support each other's work without human (developer) intervention.

# Innovation and Scientific Awards

2016

InterUrban 2. Startup Competition, podium,  
Vienna, Austria



2015

Digital Life Design Festival, member of the Hungarian  
delegation, TelAviv, Israel



2015

Be Smart Innovation Competition, podium, Hungarian  
Embassy in Israel - Budapest Enterprise Agency,  
Budapest, Hungary



2014

StartupwiseGuys programme, podium in the TOP 10  
European startups, Tallinn, Estonia



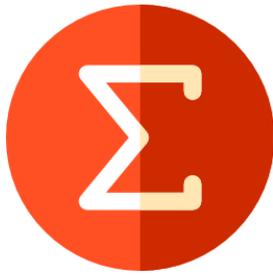
2013

StartupSauna, podium, Budapest, Hungary



2011

Scientific Academic Competition, podium (II. place),  
Information Technology on Environmental  
Management section, Institute of Water and  
Environmental Management, University of Debrecen,  
Debrecen, Hungary



# Scientific Publications

Mátyás, B., Káta, J., Horváth, J. (2016) Comparative evaluation of some soil microbial parameter related to the carbon cycle, Acta Agraria (in Hungarian) 2016 (69): 137-142

Horváth, J., Mátyás, B., Káta, J. (2016) Impact of agronomic factors on urease enzyme activity in a long term fertilizer experiment, Acta Agraria (in Hungarian) 2016 (68): 43-48

Mátyás, B., Mátyás, Gy., Horváth, J., Káta, J. (2015) Data storage and management related to soil carbon cycle by a NoSQL engine on a SQL platform - Joker Tao, Journal of Agricultural Informatics, 6 (3): 67-74, doi: 10.17700/jai.2015.6.3.201

Matyas, B., Matyas, Gy., Szendrei, M., Singla, A., Kong, Y., Katai, J., Olah, A.Z., Inubushi, K. (2015) Development of four columns data storage model for data-manipulation of greenhouse gases and soil properties, Sustainable Agriculture Research, 4 (4): 115-121, doi: 10.5539/jfr.v4n4p115

Matyas, B., Matyas, Gy., Szendrei, M., Singla, A., Kong, Y., Katai, J., Olah, A.Z., Inubushi, K. (2014) Data manipulation of correlations between soil properties and GHG emission. Book of proceedings, Soil of Soil Congress, 583-588

Mátyás, B., Tállai, M., Káta, J., Horváth, J. (2015) The impact of fertilisation on a few microbiological parameters of the carbon cycle. (in Hungarian) Acta Agraria. 2015 (64): 45-50

Horváth, J., Tállai, M., Mátyás, B. (2015) Change of soil nitrogen content in a long term fertilization experiment. Acta Agraria. (in Hungarian) 2015 (64): 39-44

Horváth, J., Mátyás, B. (2015) Change of the soil nitrate content in a calcareous chernozem soil. 21st International Student Conference on Environmental Protection and Rural Development. Szolnok, Hungary 29. May 2015. p.25

Mézes, L., Tamás, J., Mátyás, B (2014) Feather waste recycle for Biogas production, Biowaste- Athen Congress Press

Mátyás, B. (2016) A novel database management logic designed for some important production stages of farm to table, PhD dissertation, UCN, European Programmes, Austria, Dissertation

Mátyás, B. (2013) Biogas production optimizing by DSS, University of Debrecen, Thesis

First author (ratio)



International peer reviewed (ratio)



Hungarian peer reviewed (ratio)



Hungarian peer reviewed with English abstract (ratio)



Conferences (ratio)



Open source thesis (ratio)



# Media

<http://www.debreconsun.hu/eco/2015/09/24/success-in-tel-aviv/>

[http://bbj.hu/business/hungarian-startups-show-in-tel-aviv\\_85223](http://bbj.hu/business/hungarian-startups-show-in-tel-aviv_85223)

<http://nkfi.gov.hu/the-office/press-coverage/hungarian-startups-show>  
<http://bvk.hu/joker-tao-adatbazis-kezeles-hatarok-nelkul/>

<http://bvk.hu/sikeresen-szerepeltek-a-bvk-által-kivalasztott-startupok-a-dld-tel-aviv-innovacios-fesztivalon/>

<http://bvk.hu/inforadio-startup-nagyhatalom-vagyunk/>

<http://bvk.hu/index-magyar-startupok-vettek-be-a-heber-szilicium-volgyet/>  
<http://bvk.hu/origo-magyar-startupok-debutaltak-az-izraeli-szilicium-volgyben/http://www.debreconsun.hu/eco/2015/09/24/success-in-tel-aviv/>

[http://bbj.hu/business/hungarian-startups-show-in-tel-aviv\\_85223](http://bbj.hu/business/hungarian-startups-show-in-tel-aviv_85223)

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<http://bvk.hu/joker-tao-adatbazis-kezeles-hatarok-nelkul/>

<http://bvk.hu/sikeresen-szerepeltek-a-bvk-által-kivalasztott-startupok-a-dld-tel-aviv-innovacios-fesztivalon/>

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<http://bvk.hu/index-magyar-startupok-vettek-be-a-heber-szilicium-volgyet/>  
<http://bvk.hu/origo-magyar-startupok-debutaltak-az-izraeli-szilicium-volgyben/>

<http://www.debrececinap.hu/egyetem/2015/09/17/ agraros-siker-a-heber-szilicium-volgyben/> <http://www3.unideb.hu/portal/hu/node/18571>

<https://www.facebook.com/iesmarthungary/posts/945172785612935>

<http://www.origo.hu/techbazis/20150908-magyar-startup-izrael-tel-aviv-dld-fesztival-expo.html> <http://mno.hu/gazdasag/kiemelt-tamogatas-jut-a-startupoknak-1303324> <http://infoter.eu/cikk/magyar-startupok-mutatkoznak-be-tel-avivban> <http://www.innoportal.hu/be-smart-fokuszban-a-startup-mikrovallalkozasok-tamogatasa> <http://budapest.hu/Lapok/2015/magyar-vallalkozasok-a-vilag-legrangosabb-technologiai-fesztivaljan.aspx>

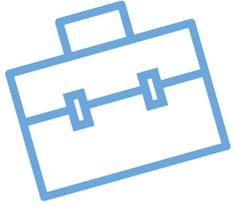
[http://inforadio.hu/gazdasag/2015/09/07/startup\\_nagy\\_hatalom\\_vagyunk-755326/](http://inforadio.hu/gazdasag/2015/09/07/startup_nagy_hatalom_vagyunk-755326/)

<http://www3.unideb.hu/portal/node/16375>

<http://mazsihisz.hu/2015/09/10/sikeresen-mutatkoztak-be-a-magyar-startup-projektek-tel-avivban-8106.html>

ARTICLES ABOUT MY STARTUP SUCCESS





MEETUPS ORGANIZED BY ME

MEETUPS ORGANIZED BY ME



TV AND RADIO INTERVIEWS

## Media

<http://allevents.in/budapest/startup-trendek-%E2%80%93-big-data-meetup-m%C3%A1ty%C3%A1s-bencevel-2016-04-22>

<http://frissdiplomas.hu/esemenyek/321-Startup-trendek-Big-Data-meetup-Matyas-Bencevel-2016-04-22>

<http://www.dobbantoprogram.hu/esemenyek/aliquam-ut-fringilla-est/http://allevents.in/budapest/startup-trendek-%E2%80%93-big-data-meetup-m%C3%A1ty%C3%A1s-bencevel-2016-04-22>

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<http://www.fm90.hu/campus/jokertao-uj-szoftver-a-de-breceni-egyetem-kutatojato>

<http://hangtar.radio.hu/>