

# Summer School of *Practical Ophthalmology* in Prague

PROJECT PROPOSAL 2023  
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# CONCEPT & PROJECT

# PROJECT SPECS.



## SUMMER SCHOOL OF PRACTICAL OPHTHALMOLOGY

The Summer School of Practical Ophthalmology is a collaborative effort between Sorbonne, Heidelberg, Warsaw, Milano, Geneva, and Copenhagen Universities. Our primary objective is to provide a platform for aspiring ophthalmologists to learn from a diverse group of experienced clinicians, including both local experts and visiting faculty. The curriculum has been meticulously designed and curated to offer a comprehensive blend of theoretical foundations and practical skills, ensuring that the topics covered remain accessible, relevant, and engaging. The field of ophthalmology is ever-evolving, and it is of utmost importance to equip the next generation of medical professionals with the knowledge and expertise required to address the growing challenges in eye care. By fostering an environment of continuous learning and collaboration, the Summer School of Practical Ophthalmology aims to nurture the potential of young ophthalmologists and instill in them a passion for excellence in patient care.



### ORGANIZATORS

Vasil Kostin  
Martin Horák

### DATE

28 - 30. 8. 2023

### PROJECT NAME

Summer School of Practical Ophthalmology in Prague

### INVOLVED PARTNERS



### LIST OF LECTURERS

- |   |   |
|---|---|
| 1. João Pedro Marques. MD, PhD, FEBO          | 6. Prim. MUDr. Miroslav Veith, Ph.D., MHA |
| 2. Doc. MUDr. Pavel Studený, Ph.D., MHA       | 7. MUDr. Zbyněk Straňák Ph.D.             |
| 3. Dr. Med. Sophie-Christin Ernst             | 8. MUDr. Jara Hornová, CSc.               |
| 4. Prof. Pearse Kean Team (Dominic Wiliamson) | 9. MUDr. Dita Rejholcová, FEBO            |
| 5. MUDr. Adam Kopecký, Ph.D., FEBO            | 10. MUDr. Martina Poláčková               |
|   | 11. MUDr. Alina-Dana Baxant               |
|   | 12. MUDr. Jana Lukačšínová                |

### LIST OF INSTITUTIONS

- |  |                              |
|--|------------------------------|
| 1. Association for Innovation and Biomedical Research on Light and Image | 7. Charles Univeristy        |
| 2. Coimbra University Hospital   | 8. University of Heidelberg  |
| 3. Moorfields Eye Hospital   | 9. Sorbonne Université       |
| 4. University College London   | 10. University of Geneve     |
| 5. Technical University of Berlin  | 11. University of Copenhagen |
| 6. University Hospital Basel   | 12. Masaryk University       |
|  | 13. University of Ostrava    |
|  | 14. Ministry of Health       |



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# 01. WORKSHOPS

At our summer school, you'll learn from a diverse group of experienced clinicians, including local experts and visiting faculty. We'll cover both theoretical foundations and practical skills, making the topics accessible and relevant. The curriculum is designed and curated to help you enhance your professional abilities in an approachable and engaging manner.

BRINGING  
PRACTICAL  
KNOWLEDGE

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## REFRACTION, VA, VISUAL FIELDS & PUPIL

Find out how to take common measurements at the clinic and use them to diagnose common pathologies.

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## CORNEAL MICROSURGERY & CATARACT OPERATION

Practice microsurgery on pig eye models under supervision of ophthalmic surgeons.

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## PRACTICAL IMAGING METHODS

Delve into the principles of imaging methods and their usage in disease diagnostics.

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## SLIT LAMP

Learn the basics of slit lamp operation and use these skills during patient examinations.

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# 02. CLINICAL SEMINARS

Before every practical workshop, there will be a special seminar intended to provide a refresher on the necessary information and theory needed to effectively participate.

- ✓ BASIC CLINICAL ANATOMY, REFRACTION, VA, VISUAL FIELDS AND PUPIL
- ✓ COMMON COMPLAINTS IN CLINIC, EMERGENCY CONDITIONS
- ✓ OCULAR MOBILITY AND PALSIES
- ✓ ANTERIOR SEGMENT
- ✓ POSTERIOR SEGMENT - PATHOLOGY & EXAMINATION METHODS



TOPICS OF  
DAY TO DAY  
WORK



# CUTTING EDGE RESEARCH

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## 03. LECTURES

Get ready for lectures from various fields of ophthalmology delivered by top researchers, AI specialists and surgeons.

- ✓ OPHTHALMIC GENE THERAPY
- ✓ AI AND THE FUTURE OF OPHTHALMOLOGY
- ✓ SUBRETINAL IMPLANTATION OF RPE
- ✓ DIVE INTO OCULOPLASTICS
- ✓ LIVE COMMENTARY FROM THE OPERATING THEATRE

# FUTURE?

In the future, we envision the Summer School of Practical Ophthalmology expanding its focus on the education of young ophthalmologists. We will introduce specialized training in practical aspects of ophthalmic surgeries, OCT image interpretation, and understanding AI algorithms for diagnostic and treatment planning purposes. Additionally, our workshops will prioritize patient-centered care and value-based healthcare in ophthalmology, emphasizing the importance of empathy, ethics, and patient satisfaction.

By forging strategic collaborations with **leading institutions, industry companies and industry experts**, we will ensure that our curriculum remains at the forefront of advancements in ophthalmology. The establishment of mentorship programs and networking opportunities will facilitate ongoing support for participants as they embark on their professional journeys.

## LEADERSHIP

Integrate leadership and management training into the curriculum, empowering participants to excel not only as clinicians but also as future leaders in the field of ophthalmology.

## INTERDISCIPLINARITY

Organize workshops that encourage collaboration between ophthalmologists and other medical specialties, promoting a holistic approach to patient care and fostering cross-disciplinary learning.

## ADVOCACY

Expand the school's impact beyond education by engaging participants in eye health advocacy campaigns, raising awareness about preventable eye diseases and promoting eye care accessibility.

## MENTORSHIP

Implement a structured mentorship program, connecting young ophthalmologists with experienced clinicians and industry leaders, fostering professional growth and guidance.

## AUGMENTED REALITY

Introduce AR-based simulations for ophthalmic surgeries and diagnostic procedures, providing participants with a realistic and risk-free environment to practice and refine their skills.

# WHO IS BEHIND THE PROJECT



VASIL KOSTIN

FINAL YEAR MEDICAL STUDENT

CURRENTLY AT MEDICAL UNIVERSITY OF VIENNA

Ophthalmology enthusiast and MedTech co-founder, recognized as a Forbes 30 under 30 honoree. His focus lies in AI applications in ophthalmology, currently contributing to the pioneering OPTIMA team in Vienna where his works lies in between of clinical and IT team. Aspiring to pursue clinical rotation at Oxford University and postgraduate work at Harvard University's Ophthalmology AI Lab. Dedicated to driving advancements in eye care through innovation and education.



MARTIN HORÁK

FINAL YEAR MEDICAL STUDENT

CURRENTLY AT OXFORD UNIVERSITY

An aspiring ophthalmologist currently doing clinical rotations at Oxford. He has a strong research background, having explored ophthalmology at the Third Faculty of Medicine and sleep medicine at the National Institute of Mental Health. Additionally, Martin possesses eight years of experience as a skilled Czech-to-English translator. A dynamic individual with a passion for innovation and patient care.



ZBYNĚK STRAŇÁK

OPHTHALMIC SURGEON

CURRENTLY AT FNKV

Dr. Zbyněk Straňák is an accomplished ophthalmology surgeon specializing in age-related macular degeneration (AMD). His pioneering research on applying RPE cells to pigs' subretinal space shows promise for advancing AMD treatment. Dr. Straňák also serves as a respected lecturer at the Institute For Postgraduate Medical Education, sharing his knowledge and passion for eye care with future ophthalmologists.