

Dr. Andrea Rapino, Laureati in Ottica e Optometria e M.Sc. Vision Science and Business (Optometry)



Master Thesis Topic: Myopia development: measurements of accommodation dysfunctions in different gaze (directions), comparing emmetropic and myopic children/adolescents

Supervisor: Prof. Dr. Anna Nagl & Oliver Strobel, M.Sc.

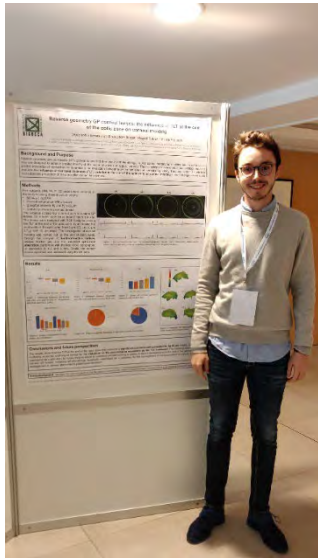
Dott.ssa Eleonora Fatigati, Laureati in Ottica e Optometria e M.Sc. Vision Science and Business (Optometry)



**Master Thesis Topic: Analysis of two latest generation in-office
therapies for dry eye**

Supervisor: Prof. Dr. Anna Nagl & Thomas Hofmann, M.Sc.

Dr. Emanuele Mocciardini, Laureati in Ottica e Optometria e M.Sc. Vision Science and Business (Optometry) cand.



Master Thesis Topic: Visual rehabilitation through perceptual learning in AMD patient

Supervisor: Prof. Dr. Anna Nagl & Prof. Dr. Antonio Papagni

Prof. Dr. Antonio Papagni & Alumni from Milano-Bicocca meet Prof. Dr. Anna Nagl from Aalen University



Double Diploma: Chiara Toffoli (also M.Sc. at Aalen University) and Sara Peloso



Milano-Bicocca student Francesca Saibene starts her semester at Aalen University now



LEARNING AGREEMENT FOR STUDIES

The Student

Last name (s)	SAIBENE	First name (s)	FRANCESCA
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Table A: Study programme abroad.

Component code	Component title	Semester	ECTS credits
11124	Deutsch als Fremdsprache B2.1		3
11125	Deutsch als Fremdsprache B2.2		3
77911	Medizinische Optik		5
77925	Praktisches Studiensemester		13
77904	Visuelle Ergonomie		5
Total:			29

Web link to the course catalogue at the receiving institution:

<i>The course catalogue is published on the website of the receiving institution.</i>

Table B: Set of components to be replaced at sending institution.

Component code	Component title	Semester	ECTS credits
E3002Q035	ALTRE CONOSCENZE UTILI PER L'INSERIMENTO NEL MONDO DEL LAVORO		5
E3002Q300	ATTIVITA' A SCELTA SVOLTE IN ERASMUS		12
E3002Q036	TIROCINIO PROFESSIONALIZZANTE		13
Total:			30



Agenda:

- 1. Aalen**
- 2. Bachelor degree B. Sc. Optometry**
- 3. Optician vs. Optometrist**
- 4. Part time Master degree program
M.Sc. Vision Science and Business (Optometry)**

The City of Aalen



© Chiara Toffoli, Double Diploma Aalen University & Università degli Studi di Milano-Bicocca 2012

The City of Aalen



Aalen – central within Southern Germany and easily accessible from Italy





Aalen University

Profile Aalen University

6000 students

Over 50 Bachelor & Master degree programs



The Optometry & Audiology building: Campus Burren



The Optometry & Audiology building: Campus Burren



The Optometry & Audiology building: Campus Burren





Die Zukunft im Sinn. - Sehen. Hören. Studieren

B.Sc. Augenoptik / Optometrie

B.Sc. Hörakustik / Audiologie



Hochschule Aalen

Technik und Wirtschaft

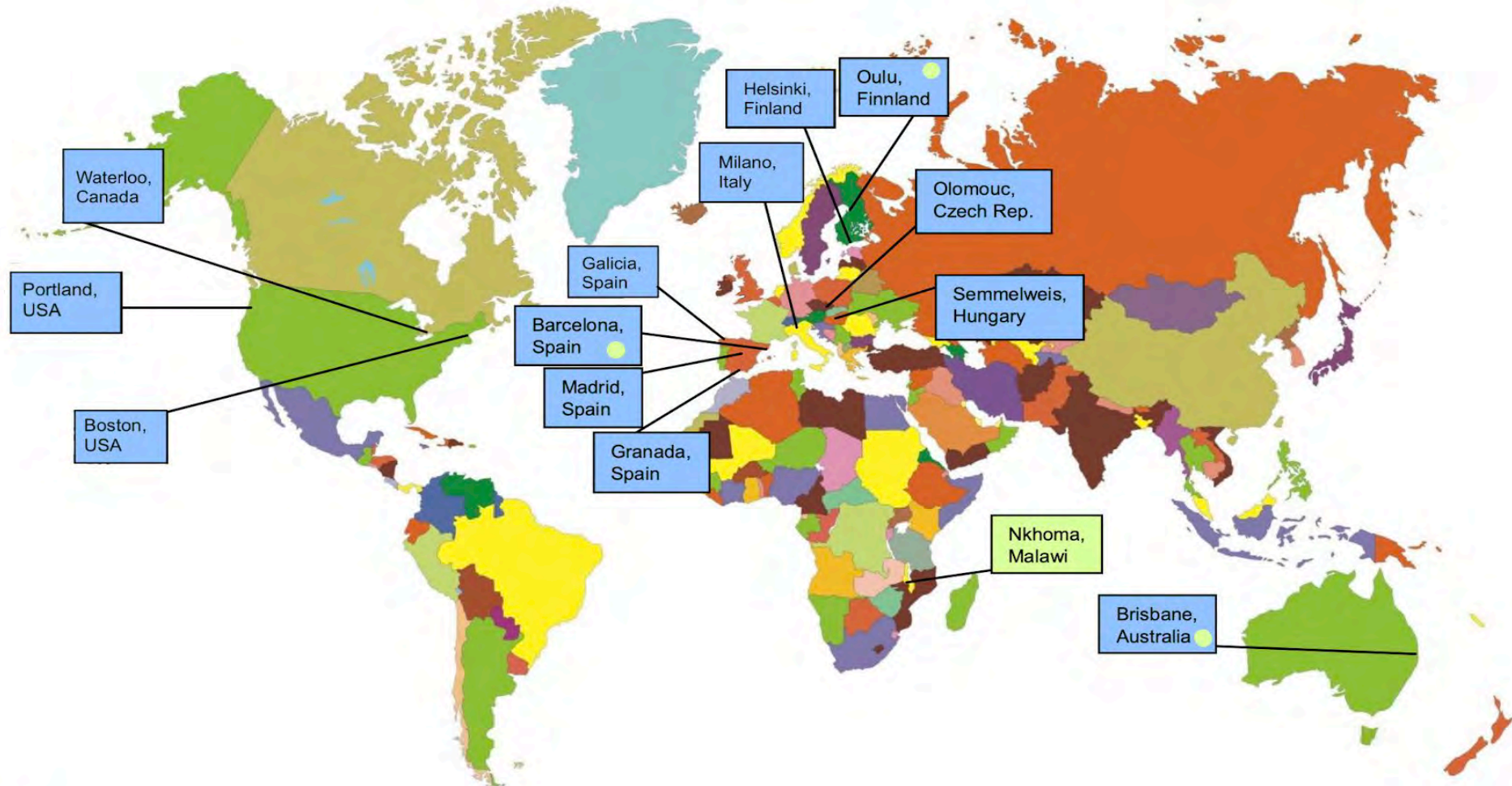


Degree program Optometry at Aalen University

- The first optometry degree program Germany started in Aalen in 1982
- 230 optometry/audiology students enrolled (spread over 7 semesters)
- Always: 24-26 Master students in the part time Master degree program M.Sc. Vision Science and Business (Optometry)



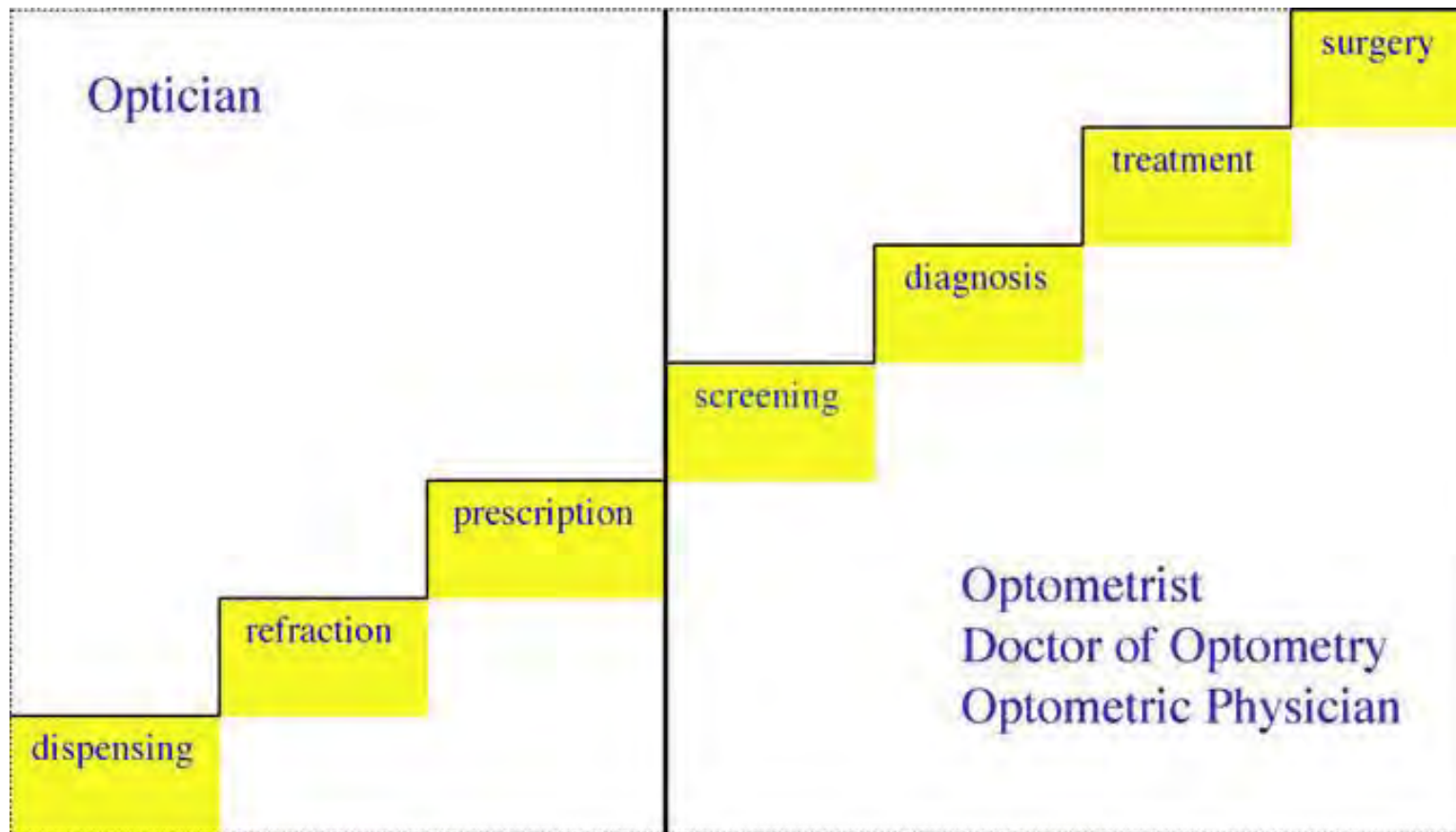
Aalen University's international network in Optometry



Modul: Internationale Optometrie

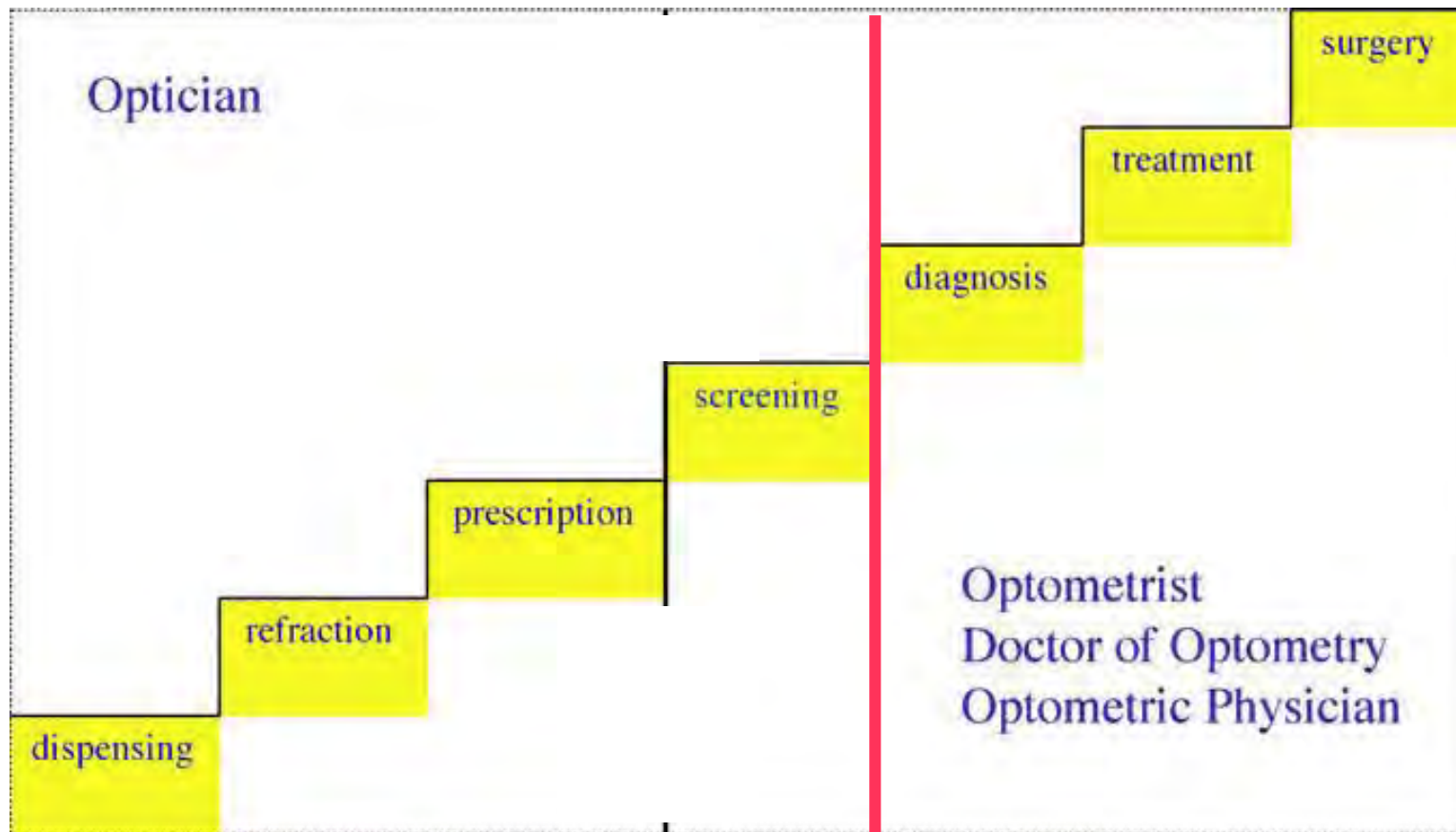
Praxissemester

Optician vs. Optometrist



Source: Naroo, S. A., & Grit, F. (2009). Optometry and optics in Europe: 101-102.

Screening is allowed in Germany



Source: Naroo, S. A., & Grit, F. (2009). Optometry and optics in Europe: 101-102.

World Council of Optometry: Categories of Optometric Services

1. Optical Technology	2. Visual Function	3. Ocular Diagnostic		4. Ocular Therapeutic
		a. Without drugs	b. With drugs	
<ul style="list-style-type: none"> • Dispensing 	<ul style="list-style-type: none"> • Dispensing • Refraction • Binocular functions 	<ul style="list-style-type: none"> • Dispensing • Refraction • Binocular functions • Screening for eye disease 	<ul style="list-style-type: none"> • Dispensing • Refraction • Binocular functions • Diagnosis of eye disease with drugs 	<ul style="list-style-type: none"> • Dispensing • Refraction • Binocular functions • Diagnosis of eye disease using drugs • Treatment of eye disease with drugs
Greece, Turkey	Belgium, France, Iceland	Austria, Denmark, Germany, Italy, Spain, Sweden, Switzerland	Finland, Ireland, Netherlands, Norway, UK	Australia, Canada, New Zealand, US

Source: Naroo, S. A., & Grit, F. (2009). Optometry and optics in Europe: 101-102. updated

GERMANIA: OTTICO OPTOMETRISTA

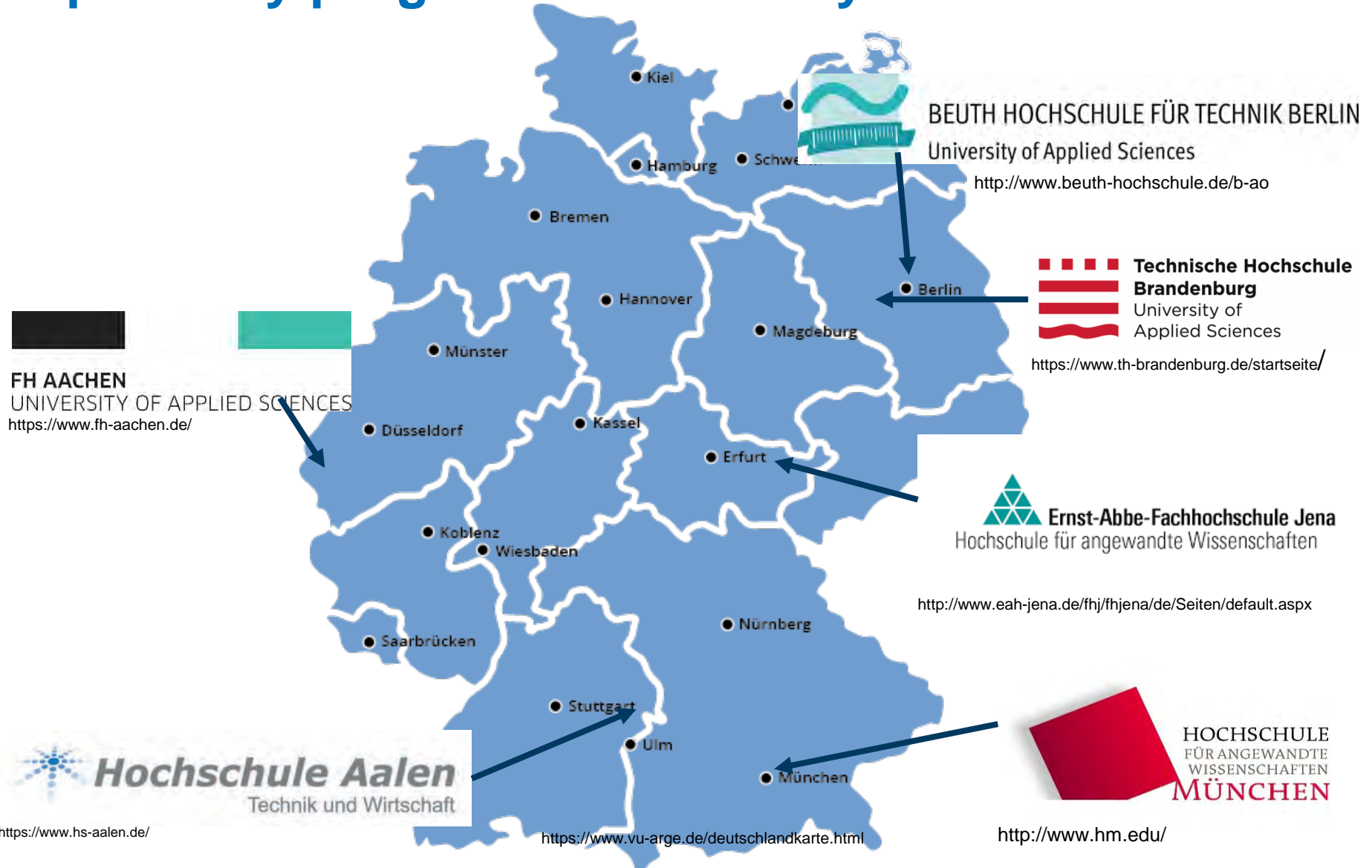
Agli optometristi vanno attribuite le seguenti attività:

- Misurazione della refrazione secondo metodi soggettivi ed oggettivi
- Esame dell'acutezza visiva
- Misurazione del tono oculare, nel caso di sospetta patologia esso è tenuto ad inviare il paziente al medico oculista
- Screening (tonometria non-contact, campo visivo, fundus)
- Approntamento e vendita dei sistemi visivi di qualunque tipo (occhiali e lenti a contatto)

Fonte: Paolo Carelli

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Optometry programs in Germany



© Antonia Neumann & Fiona Wißmann, students at Aalen University



**In 2022
20th anniversary**

**M.Sc. Vision Science and
Business (Optometry)**

Highlights: Professors from the US

The New England College of Optometry,
Boston, MA, USA

The Pacific University College of Optometry,
Forest Grove, OR, USA



Prof. Bina Patel



Prof. Antony Cavallerano



Prof. Debora Nickla



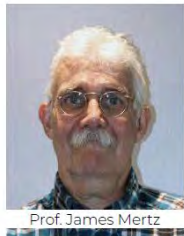
Prof. Willard Bleything



Prof. Karl Citek



Prof. Graham Erickson



Prof. James Mertz



Prof. Kathleen Krenzer



Prof. Jinjong Chung



Prof. Hannu Laukkanen



Prof. Lorne Yudcovitch



Prof. John Lowery



Prof. Joanne Caruso



Prof. Lauren Kirkness



Prof. Brandon Zimmerman



Prof. Fraser Horn



Prof. Scott Cooper



Prof. Ryan Bulson



Prof. Diane Adamczyk



Prof. Srinivas Natrajan

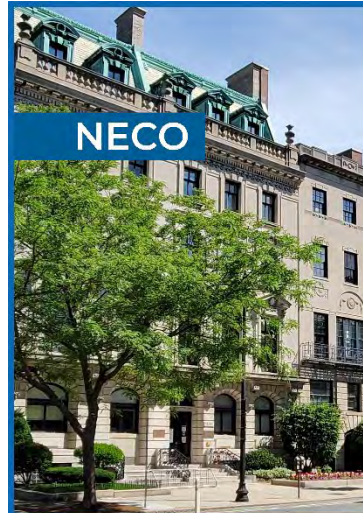


Prof. Bradley Coffey

Highlights: Study visits/clinical stays in the US

Possibility of two two-week study visits in the USA

- New England College of Optometry (Boston, MA)
- Pacific University College of Optometry (Forest Grove, OR)



Eleonora Fatigati and Alessandro Protti at Pacific University



Course of studies: Schedule 2022/23

Classroom lectures usually take place once a month on long weekends:
Usually Friday up to Tuesday



Lecture Schedule M.Sc. Vision Science and Business (Optometry) 2022/23

This is subject to change.

Version: Nov 15, 2021

YEAR 2022			
Day/Time	Lecture format	Module	Lecturer incl. Lab Team
Friday, July 01 , 9am – Tuesday, July 5 , 4pm	face to face	20th Anniversary Celebration in Benediktbeuern: International Alumni Event & Master Thesis/Research Project & Ophthalmic Project/ Clinical Project Study/Clinical Experience: Presentations	Degree program & Alumni Association & <u>Kümmel</u> & Dr. Breher/Gier & Prof. Dr. Anna Nagl et al.
Thursday, July 21 , 9am – Tuesday, July 26 , 7pm; incl. one extra day for labs	face to face	Ocular Anatomy Introduction to Ocular Disease incl. Lab Clinical Case Studies Logbook	Dr. Kathleen Krenzer; Dr. Bina Patel with Lab-Team (3 Persons) <u>Georg Scheurer & Oliver Buck</u>
Friday, Sept. 9 , 1pm – Tuesday, Sept. 13 , 10pm	online	9am - 10.30am Ocular Anatomy Histology/Cell Introduction to Ocular Disease	Dr. Debora <u>Nickla</u> Dr. Bina Patel
Friday, Oct. 7 , 9am – Wednesday Oct. 12 , 7pm; incl. extra time/day for labs	face to face	9am - 10.30am Histology/Cell Cell/Physiology General Pharmacology Evening Labs – (3-4 hours Lab). Friday/Saturday	Dr. James Mertz Dr. Lorne Yudcovitch Lab-Team (2 Persons)
Friday, Nov. 11 , 9am – Tuesday, Nov. 15 4pm	face to face	9am-10.30am: Cell/Physiology 20th Anniversary Celebration Symposium & Karl Amon Optometry Award & Leadership Module	Degree program & Alumni Association & Prof. Dr. Anna Nagl
Friday, Dec. 02 , 5pm – Tuesday Dec. 06 , 10pm	online	General Pharmacology	Dr. Lorne Yudcovitch

Course of studies: Schedule 2022/23

YEAR 2023			
Thursday, Jan. 5 , 9am – Tuesday, Jan. 10 , 7pm; incl. one extra day for labs	face to face	9am-11 am: Intro to Ocular Disease (course contents from July/Sept.) General/Systems Pathology Introduction to Ocular Disease incl. Lab	Dr. Kathleen Krenzer Dr. Bina Patel Lab-Team (3 Persons)
Friday, Febr. 17 , 2pm – Tuesday, Febr. 21 , 7pm	online	9am-10.30am: General Pharmacology (the course contents from Oct. & Dec.) Ocular Pharmacology	Dr. Diane Adamczyk
Friday, March 17 , 9am – Tuesday, March 22 , 7pm	face to face	9am-10.30am: General/Systems Pathology Business Simulation Ophthalmic Project Intro Clinical Experience Portfolio and Lab Practice (weekend) focused on European Diploma Optometry (EDO)	Yannick Fetsch/Prof. Dr. Nagl Dr. Katharina Breher/Yvonne Gier/Dr. Tony Cavallerano/ Dr. Matjaž Mihelčič
Friday, April 14 , 9am – Tuesday, April 18 , 7pm	face to face	9am-10.30am: Ocular Pharmacology Ocular Pharmacology Introduction to Ocular Disease incl. Lab	Dr. Diane Adamczyk Dr. L. Kirkness; Dr. J. Chung, Lab-Team (2 Persons)
Friday, May 5 , 9am – Tuesday, May 9 , 7pm	face to face	9am-10.30am: Ocular Pharmacology (course contents from April) Business Simulation incl. Part D Integral Competencies Clinical Experience Portfolio and Lab Practice (weekend) all focused on European Diploma Optometry (EDO)	Prof. Dr. Anna Nagl/ Dr. Tony Cavallerano / Dr. Matjaž Mihelčič/Dr. Katharina Breher/Yvonne Gier
Tuesday, May 30 , 9pm – Sunday, June 4 , 7pm	face to face	9am-10.30am: Intro to <u>Oc</u> Disease (course contents from Jan.) Introduction to Ocular Disease incl. Lab & Proficiencies	Dr. Bina Patel with Lab-Team (3 Persons)
Monday, June 19 – Friday, June 30	face to face	Elective two week program Clinical Optometry at New England College of Optometry, Boston	Dr. Bina Patel Dr. Joanne Caruso et al.
Friday, Sept. 22 , 9am – Tuesday, Sept. 26 , 4pm	face to face	9am-12am: Intro to Oc. Disease (the course contents Apr./May/June) Master Thesis/Research Project & Ophthalmic Project/Clinical Project: Presentations and Alumni Congress in Benediktbeuern https://www.benediktbeuern.de/en	Prof. Dr. Anna Nagl et al. & ...renowned lecturers managed by Scheuerer & Alumni Association & Kuemmel et al.
Professors from New England College of Optometry, Boston, MA, US, lecture in the boxes marked in blue color			

The Aalen M.Sc. Part-time degree program makes you ready for the European Diploma Optometry (EDO) (1/3)

Study and Examination Regulations Studien- und Prüfungsordnung (SPO)

compulsory modules for the European Diploma Optometry are marked with EDO

Table of Content

Compulsory Modules

No.	Module Lecture	Type	Study semester SWS				CP
			1	2	3	4	
29001	Optometric Project						5
29101	Optometric Project	V,P	1				5
29102	Optometric Project Presentation	P	X				
29002	Leadership						5
29301	Studium Generale	V,P			2		5
29302	Leadership and Communication	V,P			1		
29010	Master Thesis						30
9999	Master Thesis	P				X	30
9998	Master Thesis Colloquium	P				X	

Total Compulsory Modules 40 CP

The Aalen M.Sc. Part-time degree program makes you ready for the European Diploma Optometry (EDO) (2/3)

Elective Modules (those that are compulsory for the European Diploma Optometry EDO are marked)

No.	Module Lecture	Type	Study semester SWS				CP
			1	2	3	4	
29830	Human Biology						5 (EDO)
29401	Ocular Anatomy	V		2			5
29402	Physiology	V		2			
29831	Pathology						5 (EDO)
29403	Histology	V,L		2			5
29404	Systems Pathology	V		2			
29832	Pharmacology						10 (EDO)
29405	General Pharmacology	V		4			10
29406	Ocular Pharmacology	V		4			
29833	Ocular Disease						10 (EDO)
29407	Intro to Ocular Disease 1	V,L		3			10
29408	Intro to Ocular Disease 2	V,L		4			
29834	Clinical Optometry in the US						5
29409	Interactive Clinical Cases	V,L		1			5
29410	Clinical Optometry in the US	V,P		1			
29835	Vision Therapy and Binocular Vision						10 (EDO)
29411	Binocular Vision Disorders	V,L		4			10
29412	Vision Therapy	V,L		4			
29836	Pediatric Optometry						5 (EDO)
29413	Pediatric Optometry	V,L		2			5
29414	Case Management Pediatric	V,P		2			
29837	Sports Vision						5
29415	Sports Vision	V,L		1			5
29416	Clinical Observations in the US	P		X			

The Aalen M.Sc. Part-time degree program makes you ready for the European Diploma Optometry (EDO) (3/3)

No.	Module Lecture	Type	Study semester SWS				CP
			1	2	3	4	
29838	Low Vision						5 (EDO)
29417	Low Vision	V,L		3			5
29418	Low Vision Project	P		X			
29839	Scientific Methods						10 (EDO)
29419	Biostatistics	V,P		2			10
29420	Scientific Methods	V,L		2			
29840	Contact Lenses and Refractive Surgery						5 (EDO)
29421	Contact Lenses	V,L		2			5
29422	Refractive Surgery	V,L		2			
29844	Marketing Management						5 (EDO)
29429	Marketing and Communication	V,L		2			5
29430	Integral Competencies	V,P		1			
29847	Clinical Experience						5 (EDO)
29435	Clinical Experience	V,L		1			5
29436	Clinical Experience Portfolio	P		X			
29848	Clinical Case Studies: Logbook						5 (EDO)
29437	Clinical Case Studies	V,L		1			5
29438	Case Documentation: Logbook	P		X			

Overview Vision Science and Business (Optometry)

Entry requirements

- Bachelor's degree in optometry

At a glance

- wide range of extremely important topics in optometry (f.e. ocular diseases, biology, pathology, pharmacology, binocular vision, vision therapy, pediatrics, sports vision, etc.)
- knowledge that can be applied to everyday practice
- modern equipped laboratory and seminar rooms on an area of 1,750 m²
- lectures by professors from the US-American partner universities with practical experience in their specialist areas (e. g. primary eye care, pediatric optometry, vision therapy)
- clinically orientated courses in a laboratory setting with hands-on practical training of successful optometrists of Germany and Switzerland
- two stays abroad in optometric practices and clinics in the US for two weeks each

General Conditions

- the Masters's program is designed for four semesters (24 months) in parallel to work
- lectures and the corresponding laboratory events are usually held once a month over an extended weekend (Friday to Tuesday)
- study fee total 19.990 € plus semester fee 149 €

Student life...



Outlook: top-class Alumni Meeting Benediktbeuern 2022

TOP 4: Benediktbeuern Alumni-Event July 2-3, 2022 with Top Speakers

- Prof. Dr. Frank Schaeffel,
Uni Tuebingen, Germany
- Prof. Dr. Bina Patel,
New England College of Optometry (NECO),
Boston, US
- Prof. Dr. Diane Adamczyk,
State University of New York (SUNY), NY, US
- Prof. Dr. Hannu Laukkanen,
Pacific University, Forest Grove, OR, US
- Prof. Dr. Graham Erickson,
Pacific University, Forest Grove, OR, US



Alumni Voices for the Optometry Master degree program



Alumni



Anna Nagl has created group "Alumni" for M.Sc. Vision Science and Business (Optometry)



Knowledge is power! I want to inform my patients the best and answer all their questions, no matter what they want to know. So I did this Master's course and I don't regret it.

Tom Köllmer



Best choice for a Master's program . Very structured and detailed knowledge in ocular diseases combined with useful Vision Therapy.

Stephanie Felgner



Nice group with not too much people, all highly motivated learning new stuff.

Sebastian Felgner



Best Master's program that teaches you the theoretical knowledge as well as the practical skills. Also, you get connected with highly qualified optometrists from Europe. It is demanding but 100% worth it.

Katharina Breher



High level of education, near to Swiss boarder and possible to do beside work.

Andreas van der Heide

Contact Details

Prof. Dr. Anna Nagl & Prof. Dr. Antonio Papagni
Dean of Studies M.Sc. Vision Science and Business (Optometry)
Hochschule Aalen
Beethovenstr. 1
D - 73430 Aalen

visiting address: Lab building 4: Optometry and Audiology, Campus Burren: Anton-Huber-Str. 23, 73430 Aalen

mail anna.nagl@hs-aalen.de
Eleonora Fatigati eleonorafatigati10@gmail.com
Emanuele Mocciardini emanuelemocciardini@gmail.com
Andrea Rapino andrea.rapino@hotmail.it

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