

## **European curriculum vitae**

EUROPEAN  
CURRICULUM VITAE  
FORMAT



PERSONAL INFORMATION

Name **PROF. DR. ADRIAN SCHWANINGER**  
Address **REGENSBERGSTRASSE 264, CH-8050 ZÜRICH**  
Telephone **+41 76 393 24 46**  
Fax  
E-mail **adrian.schwaninger@fhnw.ch**  
Nationality Switzerland  
Date of birth 07.12.1970, Zurich, Switzerland

WORK EXPERIENCE

- Dates (from – to) Since May 2009
- Name and address of employer University of Applied Sciences Northwestern Switzerland (FHNW), Riggengbachstrasse 16, CH-4600 Olten, Switzerland
  - Type of business or sector School of Applied Psychology (APS), Institute Humans in Complex Systems (MikS)
  - Occupation or position held Professor, Head of Institute Human in complex Systems (MikS)
- Main activities and responsibilities
  
- Dates (from – to) January 2008 – April 2009
- Name and address of employer University of Applied Sciences Northwestern Switzerland (FHNW), Riggengbachstrasse 16, CH-4600 Olten, Switzerland
  - Type of business or sector School of Applied Psychology (APS), Institute Humans in Complex Systems (MikS)
  - Occupation or position held Professor, Head of Security Research and Applications
- Main activities and responsibilities
  
- Dates (from – to) Since 2008
- Name and address of employer Center for Adaptive Security Research and Applications (CASRA), Thurgauerstr. 39, CH-8050 Zürich
  - Type of business or sector Center for Research and Application Development
  - Occupation or position held Head of Center
- Main activities and responsibilities
  
- Dates (from – to) 2004-2008
- Name and address of employer Max Planck Institute for Biological Cybernetics, Speemannstr. 38, D-72076 Tübingen
  - Type of business or sector Cognitive and Computational Psychophysics Department
  - Occupation or position held Research Scientist
- Main activities and responsibilities
  
- Dates (from – to) 2003-2008
- Name and address of employer University Zurich, Binzmühlestrasse 14/22, CH-8050 Zürich
  - Type of business or sector Department of Psychology, General Psychology (Cognition), Visual Cognition Research Group
  - Occupation or position held Oberassistent, Head of Research Group
- Main activities and responsibilities

- Dates (from – to) 2001 - 2003
- Name and address of employer Max Planck Institute for Biological Cybernetics, Speemannstr. 38, D-72076 Tübingen
  - Type of business or sector
  - Occupation or position held Graduate Student
- Main activities and responsibilities
  
- Dates (from – to) 2000 - 2002
- Name and address of employer Graduate Program Cognitive Psychology, Switzerland
  - Type of business or sector University Graduate Program
  - Occupation or position held Coordinator
- Main activities and responsibilities
  
- Dates (from – to) 2002 - 2007
- Name and address of employer Zurich airport
  - Type of business or sector Aviation Security Human Factors
  - Occupation or position held Project Manager
- Main activities and responsibilities
  
- Dates (from – to) Since 1999
- Name and address of employer University Zurich, Binzmühlestrasse 14/22, CH-8050 Zürich
  - Type of business or sector Visual Cognition Research Group
  - Occupation or position held Head of Visual Cognition Research Group
- Main activities and responsibilities
  
- Dates (from – to) Since 1999
- Name and address of employer University Zurich and ETH Zurich
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities Lecturing
  
- Dates (from – to) 1998 - 2003
- Name and address of employer University Zurich
  - Type of business or sector Department of Psychology
  - Occupation or position held Assistant
- Main activities and responsibilities
  
- Dates (from – to) 1996 - 1998
- Name and address of employer IBM Switzerland
  - Type of business or sector
  - Occupation or position held Teacher (part-time)
- Main activities and responsibilities
  
- Dates (from – to) 1992 - 1998
- Name and address of employer Securitas AG, Zurich
  - Type of business or sector
  - Occupation or position held Security officer (part-time job)
- Main activities and responsibilities

## EDUCATION AND TRAINING

- Dates (from – to) 1999 – 2003
  - Name and type of organisation providing education and training University Zurich (1999 – 2003) and Max Planck Institute for Biological Cybernetics (2001 – 2003)
  - Principal subjects/occupational skills covered Thesis title: "Perception and Representation of Faces"
  - Title of qualification awarded Doctoral Thesis
  - Level in national classification
  
- Dates (from – to) 1999 – 2002 (01.11.1999-31.03.2003)
  - Name and type of organisation providing education and training Graduate Program Cognitive Psychology Switzerland
  - Principal subjects/occupational skills covered
  - Title of qualification awarded
  - Level in national classification (if appropriate)
  
- Dates (from – to) 1997
  - Name and type of organisation providing education and training Institute for Psychobiology, University Autonoma, Madrid, Spain
  - Principal subjects/occupational skills covered
  - Title of qualification awarded Internship
  - Level in national classification (if appropriate)
  
- Dates (from – to) 1991 - 1998
  - Name and type of organisation providing education and training University Zurich
  - Principal subjects/occupational skills covered Studies of psychology, neuropsychology, neurophysiology, and computer science
  - Title of qualification awarded Thesis Title (Lizentiat, equivalent to Master's Degree): "Processing of component and configural information and mental rotation of faces: Testing hypotheses for the face inversion effect"
  - Level in national classification (if appropriate)
  
- Dates (from – to) 1990 (3 months)
  - Name and type of organisation providing education and training LCP Institute Covina, California, US
  - Principal subjects/occupational skills covered English Course
  - Title of qualification awarded
  - Level in national classification (if appropriate)
  
- Dates (from – to) 1984 - 1990
  - Name and type of organisation providing education and training Kantonsschule Winterthur
  - Principal subjects/occupational skills covered
  - Title of qualification awarded Matura Typus B
  - Level in national classification

(if appropriate)

## PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career  
but not necessarily covered by formal  
certificates and diplomas.*

MOTHER TONGUE

GERMAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH  
excellent  
excellent  
excellent

- Reading skills
- Writing skills
- Verbal skills

FRENCH  
good  
basic  
good

- Reading skills
- Writing skills
- Verbal skills

SPANISH  
good  
basic  
excellent

- Reading skills
- Writing skills
- Verbal skills

ITALIAN  
basic  
none  
good

## SOCIAL SKILLS AND COMPETENCES

*Living and working with other people, in  
multicultural environments, in positions  
where communication is important and  
situations where teamwork is essential  
(for example culture and sports), etc.*

Contribution as domain expert to a variety of multi-lateral and bi-lateral international research agreements requiring interaction between science, politics and the industry. Member of the ECAC Training Task Force, ECAC Technical Task Force, ICAO Working Group on Training, InterTAG, Chairman of the InterTAG ad hoc Working Group on Certification and Competency Assessment.

Member of three Commissions of the University of Zurich 2006-2008 (Forschungskommission, Kommission Titularprofessuren, Kommission Jahrespreis)

## ORGANISATIONAL SKILLS AND COMPETENCES

*Coordination and administration of  
people, projects and budgets: at work, in  
voluntary work (for example culture and  
sports) and at home, etc.*

Strong skills in coordination and administration of people, projects and budgets demonstrated through success in leading several international aviation security research projects funded by appropriate authorities, government organizations, airports and security companies (for details see [www.psychologie.uzh.ch/vicoreg/projects/](http://www.psychologie.uzh.ch/vicoreg/projects/))

## TECHNICAL SKILLS AND COMPETENCES

*With computers, specific kinds of  
equipment, machinery, etc.*

MS Office, MS Project, MS Access, Adobe Photoshop, Visual Studio, Visual Basic, Pascal

DRIVING LICENCE(S)

Car

## ADDITIONAL INFORMATION

## AWARDS

2003, ASI international award of excellence in aviation security (enhancement of human factors)  
1999, Young researcher award of the Swiss Psychological Society

## REVIEWER ACTIVITIES

Ad hoc reviewer for the following journals:

- ACM Transactions on Applied Perception
- Ergonomics
- Human Factors
- IEEE ICCST
- Journal of Experimental Psychology: Human Perception & Performance
- Journal of Vision
- Nature Neuroscience
- Neuropsychologia
- Psychological Research
- Psychonomic Bulletin & Review
- Quarterly Journal of Experimental Psychology
- Swiss Journal of Psychology
- Theoretical Issues in Ergonomics Science

## GRANTS

January 2009 – January 2013

FHNW: Amsterdam Airport Schiphol: Increasing X-Ray Image Interpretation Competency in Aviation Security Screening at Amsterdam Airport Schiphol

November 2008 - February 2009

FHNW: Eidgenössisches Justiz- und Polizeidepartement EJPD, Bundesamt für Polizei FEDPOL, Bundessicherheitsdienst: Application of X-ray certification tests for security officers at the Swiss Federal Security Service FEDPOL

August 2008 – January 2009

FHNW: Dutch National Coordinator on Counter-Terrorism: ECAC BDS Testing of L-3 ProVision 100

June 2008 – August 2008

FHNW: German Ministry of the Interior: Study on the impact of dual view and automatic explosives detection in hand luggage screening of laptops

January 2008 – December 2008

FHNW: Aéroport International de Genève: Increasing Detection Performance in Aviation Security Screening at Geneva Airport

May 2007 – December 2008

UZH: Regierung von Oberbayern, Deutschland: X-Ray Object Recognition Test (Eignungstest) für angehende Luftsicherheitsassistenten

July 2007 – March 2008

UZH: UK Department for Transport via QinetiQ: Study on the effect of cabin bag size on the effectiveness of screening

May 2007 – December 2008

UZH: Chambre de Commerce et d'Industrie de Bastia et de la Haute Corse, France: Increasing detection performance in aviation security screening at the airports of Bastia and Calvi in Corsica

January 2007 – March 2010

UZH: Canadian Air Transport Security Authority (CATSA): Research on x-ray image tutoring technology for aviation security screeners

January 2007 – December 2007

UZH: Aéroport International de Genève: Increasing Detection Performance in Aviation Security Screening

March 2007 – April 2008

UZH: Amsterdam Airport Schiphol: Reliability of Hold Baggage TIP Data

May – December 2007

UZH: Regierung von Mittelfranken, Deutschland: Leistungskontrolle von Luftsicherheitsassistenten bezüglich der Detektion verbotener Gegenstände in Röntgenbildern

April – June 2007

UZH: Scanacon Sweden: Increasing Detection Performance in Aviation Security Screening in Sweden (Pilot Project)

November 2006 – October 2008

MPI: Development of a reference levels framework for aviation security screeners (VIA project), European Commission ([www.viaproject.eu](http://www.viaproject.eu))

March – December 2006

UZH: Oslo Airport: Increasing detection and efficiency in aviation security screening

March – December 2006

UZH: 3D Security, Greece: Increasing detection and efficiency in aviation security screening

December 2005 - December 2007

UZH: Belgian Civil Aviation Administration: Web-based test system for certification of airport security screeners

January 2005 -December 2006

UZH: TNO Prins Maurits Laboratory, The Netherlands: Research on x-ray image tutoring technology for aviation security screeners

December 2005 -December 2006

UZH: Regierung von Mittelfranken, Deutschland: X-Ray Image Tutoring-Technologie für Durchleuchtungsarbeitsplätze (Screeners) für die Flughafensicherheit

December 2004 -December 2006

UZH: Bundesministerium des Innern, Deutschland: X-Ray Image Tutoring-Technologie für Durchleuchtungsarbeitsplätze (Screeners) für die Flughafensicherheit

May – December 2005

UZH: Bundessicherheitsdienst CH: Competency Assessment of X-Ray Screeners

November 2004 -December 2007

UZH: Swiss airports Zurich, Geneva, Lugano, Bern, Sion, St. Gallen: Computer-based tests for certification of aviation security screeners

December 2004 – December 2005

UZH: Swiss Army: Research on security control with x-ray equipment

Since December 2004

UZH: APSS: Software development contract

December 2003 - December 2007

UZH: Canadian Air Transport Security Authority (CATSA): Research on x-ray image tutoring technology for aviation security screeners

December 2003 - December 2006

UZH: Belgian Civil Aviation Administration: Certification of Airport Security Screeners

2001-2004

MPI: European Commission: Cognitive Vision Systems, CogVis

2001-2003

UZH: British Psychological Society (collaboration with University of Dundee): Investigating eye cues – Do naturalistic attention cues work?

## COLLABORATIONS

### *Research Institutes*

- Department of Industrial Engineering, University at Buffalo: SUNY, U.S.A. (Prof. C. Drury)
- Department of Psychology, Chinese University of Hong Kong (Prof. W. Hayward)
- Department of Psychology, University of Dundee (Dr. Martin Fischer)
- ETH Zürich, Department of Computer Science, Perceptual Computing and Computer Vision Group (S. Antifakos)
- Goldsmith College, University of London, UK (Prof. T. Valentine)
- Max Planck Institute for Biological Cybernetics, Tübingen, Germany (Prof. H.H. Bülthoff)
- School of Cognitive and Computing Sciences, University of Sussex, UK (Dr. S. Collishaw)
- Technical University of Darmstadt, Department of Computer Science, Multimodal Interactive Systems (Prof. B. Schiele)

### *Government*

- TNO Prins Maurits Laboratory, The Netherlands (C.J. de Ruiter)
- Belgian Civil Aviation Administration (F. Durinckx)
- Canadian Air Transport Security Administration (T. Hodge)
- European Aviation Security Training Institute (EASTI), Brussels, Belgium (F. Durinckx)
- Ministry of the Interior, Germany (R. Strassmann)
- Ministry of Justice, The Netherlands (project with TNO)
- Swiss Federal Office of Civil Aviation (FOCA)
- Swiss Army, Command Support Organisation (H.-R. Maurer)
- Transportation Security Administration (TSA), USA (T. Fitzsimmons)
- UK Department for Transport (P. Durrant)

### *Companies*

- Zurich State Police, Airport Division (W. Wüest)
- Amsterdam Airport Schiphol (R. Jongejan)
- Brussels International Airport Company (C. Coutereel)
- B (A. McClumpha)
- Lockheed Martin Inc. (subcontract with Safe Passage International)
- Qinetiq (A. Bridges)
- Safe Passage International (M. Rooksby)
- Security Training International (W. Glassner)
- Siemens Switzerland (M. Städler)
- Smiths Heimann International (H.-J. Schöpe)
- Zurich Airport Unique (E. Schlecht)

### *Internal (University of Zurich)*

- Department of Psychology, Gerontopsychology (Prof. M. Martin)
- Department of Psychology, Neuropsychology (Prof. L. Jäncke, Dr. V. Marcar)
- Department of Informatics, Educational Engineering (Prof. H. Schauer)
- Department of Informatics, Software Engineering (Prof. H. Gall)

MEMBERSHIP IN ORGANIZATIONS  
AND COMMISSIONS

Chairman of InterTAG ad hoc Working Group on Certification and Competency Assessment  
 Executive Committee Member of ICCST IEEE  
 IEEE Aerospace and Electronic Systems Society  
 Institute of Electrical & Electronics Engineers (IEEE)  
 International Transport Security Human Factors Technical Advisory Group (InterTAG)  
 Kommission Titularprofessuren der Philosophischen Fakultät der Universität Zürich  
 Member of the Training Task Force of the of the European Aviation Security Conference (ECAC TrTF)  
 Member of the Technical Task Force of the European Aviation Security Conference (ECAC TTF)  
 Member of the Working Group on Training of the International Civil Aviation Organization (ICAO)  
 Moderator of the TIP Study Group of the Technical Task Force of the European Civil Aviation Conference (ECAC TTF TIP SG)  
 Forschungskommission der Philosophischen Fakultät der Universität Zürich (2007-2008)  
 Kommission Titularprofessoren der Philosophischen Fakultät der Universität Zürich (2007-2008)  
 Kommission Jahrespreis der Philosophischen Fakultät der Universität Zürich (2007-2008)

TEACHING EXPERIENCE

*Fall Semester 2008*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">2359</a>	Adrian Schwaninger	<a href="#">Fundamentals of General Psychology: Perception</a>
<a href="#">FHNW</a>	Adrian Schwaninger	<a href="#">Psychology as Science</a>
<a href="#">FHNW</a>	Adrian Schwaninger	<a href="#">General Psychology 1</a>

*Summer Semester 2008*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">2327</a>	Adrian Schwaninger Marino Menozzi ( <a href="#">ETH</a> )	<a href="#">Applications of Psychophysics</a>
2444	Adrian Schwaninger Sarah Chiller-Glaus Diana Hardmeier Stefan Michel	Visual Cognition Research Group
<a href="#">FHNW</a>	Adrian Schwaninger	<a href="#">Experimentalpsychologisches Praktikum</a>

*Fall Semester 2007*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">2084</a>	Adrian Schwaninger	<a href="#">Visual Cognition</a>
<a href="#">3258</a>	Wolfgang Marx Adrian Schwaninger	<a href="#">Fundamentals of General Psychology 1: Perception</a>
2411	Adrian Schwaninger Sarah Chiller-Glaus Stefan Michel	Visual Cognition Research Group

*Summer Semester 2007*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
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<a href="#">2193</a>	Adrian Schwaninger Marino Menozzi (ETH)	<a href="#">Applications of Psychophysics</a>
2263	Adrian Schwaninger Franziska Hofer Diana Hardmeier	Visual Cognition Research Group

*Winter Semester 2006/2007*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">2066</a>	Adrian Schwaninger	<a href="#">Visual Cognition</a>
<a href="#">3256</a>	Wolfgang Marx Adrian Schwaninger	<a href="#">Fundamentals of General Psychology 1: Perception</a>
<a href="#">2155</a>	Adrian Schwaninger Stefan Michel	<a href="#">Methodenpropädeutikum II (Literaturkolloquium): Allgemeine Psychologie</a>
2158	Adrian Schwaninger Franziska Hofer Sarah Chiller-Glaus	Visual Cognition Research Group

*Summer Semester 2006*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1378</a>	Adrian Schwaninger Marino Menozzi (ETH)	<a href="#">Applications of Psychophysics</a>
<a href="#">1451</a>	Adrian Schwaninger Stefan Ryf	<a href="#">Methodenpropädeutikum Allgemeine Psychologie II: Empirische Forschung</a>
1455	Adrian Schwaninger Franziska Hofer Diana Hardmeier	Visual Cognition Research Group

*Winter Semester 2005/2006*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1372</a>	Adrian Schwaninger	<a href="#">Visual Cognition</a>
<a href="#">1350</a>	Wolfgang Marx Adrian Schwaninger	<a href="#">General Psychology III: Perception</a>
<a href="#">1443</a>	Adrian Schwaninger Franziska Hofer	<a href="#">Methodenpropädeutikum II (Literaturkolloquium): Allgemeine Psychologie</a>
1446	Adrian Schwaninger Franziska Hofer Sarah Chiller-Glaus	Visual Cognition Research Group

*Summer Semester 2005*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1363</a>	Adrian Schwaninger Marino Menozzi (ETH)	<a href="#">Applications of Psychophysics</a>
<a href="#">1437</a>	Adrian Schwaninger Stefan Ryf	<a href="#">Methodenpropädeutikum Allgemeine Psychologie II: Empirische Forschung</a>
1258	Adrian Schwaninger Franziska Hofer	Visual Cognition Research Group

*Winter Semester 2004/2005*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1251</a>	Adrian Schwaninger	<a href="#">Visual Cognition</a>
1331	Adrian Schwaninger Franziska Hofer	Visual Cognition Research Group

<a href="#">1230</a>	Wolfgang Marx Adrian Schwaninger	<a href="#">General Psychology III: Perception</a>
<a href="#">1325</a>	Adrian Schwaninger Franziska Hofer	<a href="#">Methodenpropädeutikum II (Literaturkolloquium): Allgemeine Psychologie</a>

#### *Summer Semester 2004*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1244</a>	Adrian Schwaninger Marino Menozzi ( <a href="#">ETH</a> )	<a href="#">Fundamentals of Psychophysics</a>
1310	Adrian Schwaninger Stefan Ryf	Methodenpropädeutikum Allgemeine Psychologie II: Empirische Forschung
1258	Adrian Schwaninger Franziska Hofer	Visual Cognition Research Group

#### *Winter Semester 2003/2004*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1261</a>	Adrian Schwaninger	<a href="#">Visual Cognition</a>
1244	Wolfgang Marx Adrian Schwaninger	General Psychology III: Perception
1235	Adrian Schwaninger Franziska Hofer	Visual Cognition Research Group

#### *Summer Semester 2003*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1197</a>	Adrian Schwaninger Marino Menozzi (ETH)	<a href="#">Fundamentals of Psychophysics</a>
1250	Adrian Schwaninger Stefan Ryf	Methodenpropädeutikum Allgemeine Psychologie: Empirische Forschung
1258	Adrian Schwaninger Franziska Hofer	Visual Cognition Research Group

#### *Winter Semester 2002/2003*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1188</a>	Adrian Schwaninger	<a href="#">Visual Cognition</a>
1235	Adrian Schwaninger Franziska Hofer	Visual Cognition Research Group

#### *Summer Semester 2002*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1139</a>	Adrian Schwaninger Marino Menozzi (ETH)	<a href="#">Fundamentals of Psychophysics</a>
1181	Adrian Schwaninger Stefan Ryf	Methodenpropädeutikum Allgemeine Psychologie: Empirische Forschung
1187	Adrian Schwaninger	Visual Cognition Research Group

#### *Winter Semester 2001/2002*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1147</a>	Adrian Schwaninger	<a href="#">Visual Cognition</a>

<a href="#">437</a>	Alex Gamma, Katharina Henke Westerholt, Daniel Kiper, Adrian Schwaninger	<a href="#">Cognitive Neuroscience of Attention and Consciousness</a>
8002	Adrian Schwaninger	Visual Cognition Research Group

#### *Summer Semester 2001*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1119</a>	Adrian Schwaninger Marino Menozzi (ETH)	<a href="#">Fundamentals of Psychophysics</a>
<a href="#">1132</a>	Adrian Schwaninger Ulf-Dietrich Reips	<a href="#">Measurement, judgement and new research methods.</a>
1164	Adrian Schwaninger Thomas Jarchow	Perception & Visual Cognition Research Group

#### *Winter Semester 2000/2001*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1146</a>	Adrian Schwaninger	<a href="#">Object Recognition</a>
<a href="#">1185</a>	Adrian Schwaninger Marino Menozzi	<a href="#">Selected Topics: Visual Attention</a>
1188	Thomas Jarchow Adrian Schwaninger	Perception & Visual Cognition Research Group

#### *Summer Semester 2000*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
839	Katharina Henke Adrian Schwaninger Roger M. Nitsch Christoph Hock Dominique de Quervain	Cognitive Neuroscience of Vision and Memory
<a href="#">1098</a>	Adrian Schwaninger Marino Menozzi (ETH)	<a href="#">Fundamentals of Psychophysics</a>
1141	Thomas Jarchow Adrian Schwaninger	Perception & Visual Cognition Research Group
1136	Adrian Schwaninger	Perceptual Psychology - Selected Topics

#### *Winter Semester 1999/2000*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
<a href="#">1095</a>	Adrian Schwaninger	<a href="#">Object Recognition</a>
1136	Thomas Jarchow Adrian Schwaninger	Perception & Visual Cognition Research Group
2713	Adrian Schwaninger	Perception and Cognitive Neuroscience

#### *Summer Semester 1999*

<i>No.</i>	<i>Lecturers</i>	<i>Title</i>
1072	Marino Menozzi (ETH) Adrian Schwaninger	Fundamentals of Psychophysics
1110	Thomas Jarchow Adrian Schwaninger	Perception & Visual Cognition Research Group

## PUBLICATIONS

### Peer Reviewed Articles

Schwaninger, A., Lobmaier, J., Collishaw, S., & Wallraven, C. (in press). Two routes to face perception: evidence from psychophysics and computational modeling. *Cognitive Science*. [\[PDF\]](#)

Wetter, O.E., Koerner, F., & Schwaninger, A. (in press). Does musical training improve school performance? *Journal of Instructional Science*, in press. [\[PDF\]](#)

Koller, S.M., Drury, C.G., & Schwaninger, A. (2009). Change of search time and non-search time in x-ray baggage screening due to training. *Ergonomics*, 52(6), 644-656. [\[PDF\]](#)

Schwaninger, A., & Wales, A.W.J. (2009). One year later: how screener performance improves in x-ray luggage search with computer-based training. *Proceedings of the Ergonomics Society Annual Conference 2009*, 381-389. [\[PDF\]](#)

Veres-Injac, B., & Schwaninger, A. (2009). The time course of processing external and internal features of unfamiliar faces. *Psychological Research*, 73(1), 43-53. [\[PDF\]](#)

Wales, A.W.J., Anderson, C., Jones, K.L., Schwaninger, A., Horne, J.A. (2009). Evaluating the two-component inspection model in a simplified luggage search task. *Behavior Research Methods*, 41(3), 937-943. [\[PDF\]](#)

Bolfing, A., Halbherr, T., & Schwaninger, A. (2008). How image based factors and human factors contribute to threat detection performance in x-ray aviation security screening. *HCI and Usability for Education and Work, Lecture Notes in Computer Science*, 5298, 419-438. [\[PDF\]](#)

von Bastian, C.C., Schwaninger, A., & Michel, S. (2008). Do multi-view X-ray systems improve X-ray image interpretation in airport security screening? *Zeitschrift für Arbeitswissenschaft*, 3, 166-173. [\[PDF\]](#)

Guo, Y., Schwaninger, A., & Gall, H. (2008). An architecture for an adaptive and collaborative learning management system in aviation security. *17th IEEE International Workshop in Enabling Technologies: Infrastructures for Collaborative Enterprises, Workshop for Distributed and Mobile Collaboration (DMC 2008)*, Rome, June 23-25, 2008. [\[PDF\]](#)

Koller, S.M., Hardmeier, D., Michel, S., & Schwaninger, A. (2008). Investigating training, transfer, and viewpoint effects resulting from recurrent CBT of x-ray image interpretation. *Journal of Transportation Security* 1(2), 81-106. [\[PDF\]](#)

Hayward, W.G., Rhodes, G., & Schwaninger, A. (2008). An own-race advantage for components as well as configurations in face recognition. *Cognition*, 106, 1017-1027. [\[PDF\]](#)

Vogel, J., Schwaninger, A., Wallraven, C., & Bühlhoff, H.H. (2007). Categorization of natural scenes: local vs. global information and the role of color. *ACM Transactions on Applied Perception*, 4(2), 1-21. [\[PDF\]](#) [\[High Resolution PDF, 7.5 MB\]](#)

Schwaninger, A., Michel, S., & Bolfing, A. (2007). A statistical approach for image difficulty estimation in x-ray screening using image measurements. *Proceedings of the 4th Symposium on Applied Perception in Graphics and Visualization*, ACM Press, New York, USA, 123-130. [\[PDF\]](#)

Schwaninger, A., Schumacher, S., Wallraven, C., & Bühlhoff, H.H. (2007). Using 3D computer graphics for perception: The role of local and global information in face processing. *Proceedings of the 4th Symposium on Applied Perception in Graphics and Visualization*, ACM Press, New York, USA, 19-26. [\[PDF\]](#)

Koller, S.M., Hardmeier, D., Michel, S., & Schwaninger, A. (2007). Investigating training and transfer effects resulting from recurrent CBT of x-ray image interpretation. In D. S. McNamara & J. G. Trafton (Eds.), *Proceedings of the 29th Annual Cognitive Science Society* (pp. 1181-1186). Austin, TX: Cognitive Science Society. [\[PDF\]](#)

Michel, S., Koller, S.M., Ruh, M., & Schwaninger, A. (2007). Do "image enhancement" functions really enhance x-ray image interpretation? In D. S. McNamara & J. G. Trafton (Eds.), *Proceedings of the 29th Annual Cognitive Science Society* (pp. 1301-1306). Austin, TX:

Cognitive Science Society. [\[PDF\]](#)

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### **White Papers**

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[a.schwaninger@psychologie.uzh.ch](mailto:a.schwaninger@psychologie.uzh.ch)

### **Short Conference Papers**

Ghylin, K.M., Schwaninger, A., Drury, C.G., Redford, J., Lin, L. & Batta, R. (2008). Screening enhancements: Why don't they enhance performance? *Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting*, September 22-26, New York City, NY USA. [\[PDF\]](#)

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### **Short Articles**

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## INVITED LECTURES AND PRESENTATIONS

1. Schwaninger, A. (2009). Covert testing data and key human factors. Paper presented at 12th meeting of the ECAC Training Task Force, European Civil Aviation Conference, Brussels, Belgium, January 8, 2009.
2. Schwaninger, A. (2008). Recent advances in technology and human factors. Invited lecture, European Civil Aviation Conference (ECAC), Workshop on Security Measures for Passenger and Cabin Baggage, Kiev, November 25-27, 2008.
3. Schwaninger, A. (2008). Presentation of the EU funded VIA Project. Invited lecture at the *ECAC and MEDA Workshop on Screeners Certification*, Istanbul, Turkey, October 6-8, 2008.
4. Schwaninger, A. (2008). Strategies for developing TIP libraries. Invited lecture at the European Civil Aviation Conference Technical Task Force, Paris, October 2, 2008.
5. Schwaninger, A. (2008). Development of image blending algorithms for threat image projection (TIP). Invited lecture at the European Civil Aviation Conference Technical Task Force, Paris, October 2, 2008.
6. Koller, S., & Schwaninger, A. (2008). L3 Bodyscanner Type Testing at ZRH – Intermediate Report. Presentation at the European Civil Aviation Conference Technical Task Force, Body Scanners Study Group, Paris, October 1, 2008.
7. Schwaninger, A. (2008). The main components of the VIA Project. Invited lecture at the *Security Forum of the European Civil Aviation Conference*, Lisbon, Portugal, September 26, 2008.
8. Schwaninger, A. (2008). Projektskizze zur Optimierung von Security und Facilitation. Eingeladener Vortrag für die AG Security Facilitation, Berlin, 26. August 2008.
9. Bolfing, A., & Schwaninger, A. (2008). The impact of image based factors and training on threat detection performance in x-ray screening – a study involving 5 European airports. Presentation at the 19th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), May 27, 2008, Toulouse, France.
10. Michel, S., & Schwaninger, A. (2008). The effect of single versus multi-view display on threat detection. Presentation at the 19th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), May 28, 2008, Toulouse, France.
11. Schwaninger, A. (2008). Wahrnehmung und Erkennung von Gesichtern und Objekten - Beispiele aus Grundlagenforschung und Anwendung. Eröffnungsvortrag am 21. Jahreskongress der Internationalen Vereinigung für Binokulare Vollkorrektur (IVBV), 23. - 25. Mai 2008, Egerkingen, Schweiz.
12. Schwaninger, A. (2008). Certification of x-ray image interpretation competency using computer-based tests and/or threat image projection data. Invited lecture at the European Commission Taiex Instrument, ECAC Aviation Security Assistance Program, Multilateral Workshop on screeners' certification, European Aviation Security Institute (EASTI), Brussels, May 5-7, 2008.
13. Schwaninger, A. (2008). The human aspect of screening. Invited keynote address at the International Forum for Security Screening in Aviation, Geneva, Switzerland, May 5 – 9, 2008.
14. Schwaninger, A. (2008). Wissenschaftliche Kriterien für die Erstellung von Fragebogentests. Eingeladener Vortrag an der 14. Sitzung der AG Qualitätssicherung Luftsicherheit, 4. April 2008, Zeuten, Deutschland.
15. Schwaninger, A. & McClumpha, A. (2008). Key human factors: work plan and proposal for the ECAC training task force. Paper presented at the, European Civil Aviation

Conference Training Task Force, Ministry of Transport, Brussels, April 1-2, 2008.

16. Schwaninger, A. (2008). Threat image projection (TIP) portfolio, conventional x-ray systems, ECAC Doc 30, Annex IV-13-G.doc. Paper presented at the, European Civil Aviation Conference Training Task Force, Ministry of Transport, Brussels, April 1-2, 2008.
17. Schwaninger, A. (2008). Security – Science, research and the future: An integrative approach to increase screening performance. Invited lecture, National Aviation Security Conference, Bodo, Norway, February 5, 2008.
18. Schwaninger, A. (2008). Aviation security research project at Munich airport, first report. Invited lecture, Munich Airport, Munich, Germany, January 24, 2008.
19. Schwaninger A. & Helman, S. (2007). A study into the effect of bag size, other image based and human factors on threat detection performance in X-ray screening. Invited lecture, European Commission Aviation Security Regulatory Committee, Brussels, Belgium, December 12, 2007.
20. Schwaninger A. & Helman, S. (2007). Effect of bag size on threat detection performance. Invited lecture, European Civil Aviation Conference Technical Task Force, ECAC Headquarters Paris, December 3, 2008.
21. Schwaninger, A. (2007). Results of scientific studies on x-ray image interpretation. Invited lecture, National Security Meeting (Nationaler Sicherheitsausschuss), German Ministry of Interior, Berlin, Germany, December 4, 2007.
22. Hofer, F. & Schwaninger, A. (2007). Development of technical and human resources. Conference on the Development of the African Aviation Security Roadmap, International Civil Aviation Organization (ICAO), Global Aviation Security Initiative, Addis Ababa, Ethiopia, November 5-7, 2007.
23. Schwaninger, A. (2007). Screeners: Selection, training and competency assessment. Invited lecture, Workshop on Challenges in Aviation Security, Instituto Nacional de Aviação Civil (INAC) Portugal, Policia de Segurança Publica (PSP) Portugal, and European Civil Aviation Conference (ECAC/CEAC). Lisbon, October 11-12, 2007.
24. Schwaninger, A. (2007). Training of airport security screeners. Invited presentations at Munich airport, July 17-19 and 23-24, 2007.
25. Schwaninger, A. (2007). Cognitive and computational modeling of face recognition. Invited lecture, Cognitive Neuroscience Lab, Yang-Ming University, Taiwan, July 5, 2007.
26. Schwaninger, A. (2007). Psychophysical and computational modeling of face processing and scene perception, *12th Workshop on Attention and Perception*, Center for Research in Cognitive Science, CCU, National Chung-Cheng University, Chiayi, Taiwan, July 3, 2007.
27. Schwaninger, A. (2007). Processing of component and configural information in faces. Invited lecture, *12th Workshop on Attention and Perception*, Center for Research in Cognitive Science, CCU, National Chung-Cheng University, Chiayi, Taiwan, July 3, 2007.
28. Schwaninger, A. (2007). *Threat Image Projection Technology*. Invited lecture at the European Commission Taiex Instrument, ECAC Aviation Security Assistance Program, Multilateral Workshop on Security Technology, June 28-29, 2007, Bucharest, Romania.
29. Schwaninger, A. (2007). A statistical approach for image difficulty estimation in x-ray screening. Presentation at the European Civil Aviation Conference, 36th Meeting of the Task Force for the Study of Technical Aspects of Security Problems, Bucharest, June 25 – 27, 2007.

30. Schwaninger, A. (2007). Aviation security technology and human factors. Invited Lecture at ESC Toulouse Business School, Aerospace MBA, Toulouse, France, May 10, 2007.

31. Schwaninger, A. (2007). Increasing security and efficiency through modern human factor technologies. Invited lecture at the The WSO European Cargo and Border Security Summit, Prague, Czech Republic, 13 February 2007.
32. Schwaninger, A. (2006). Recent developments in airport security human factors in Europe. Invited presentation for the Department of Homeland Security, Transportation Security Administration TSA, Washington D.C., December 5, 2006.
33. Schwaninger, A. (2006). Airport security human factors: From the weakest to the strongest link in airport security screening. The 4th International Aviation Security Technology Symposium, Washington D.C., USA, November 29, 2006.
34. Schwaninger, A. (2006). Reacting to the August 2006 UK Terror Threat – The Human Factors Perspective. Presentation at the 3rd meeting of the ECAC Training Task Force, European Civil Aviation Conference, Brussels, Belgium, October 24, 2006.
35. Schwaninger, A. (2006). Reacting to the August 2006 UK terror threat. Invited presentation at the ACI Europe Airport Exchange Conference, Madrid, Spain, October 11, 2006.
36. Schwaninger, A. (2006). Academic research at VICOREG in support of enhancing security operations. Presentation at the 17th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), October 4, 2006, Zurich, Switzerland.
37. Schwaninger, A. (2006). Towards a reliable and valid estimation of bag complexity and superposition in x-ray images. European Civil Aviation Conference, 32nd Meeting of the Task Force for the Study of Technical Aspects of Security Problems, Paris, France, June 21, 2006.
38. Schwaninger, A. (2006). Best practice in aviation security human factors based on scientific studies. Invited lecture for the Council of the International Civil Aviation Organization, Montreal, June 8, 2006.
39. Schwaninger, A. (2006). Scientific studies on the effectiveness of computer based training for increasing x-ray image interpretation competency: Study 1: Schwaninger and Hofer (2004). Presentation at the 2nd meeting of the ECAC Training Task Force, European Civil Aviation Conference, Brussels, Belgium, May 25, 2006.
40. Schwaninger, A. (2006). Scientific studies on the effectiveness of computer based training for increasing x-ray image interpretation competency: Study 2: Ghylin, Drury and Schwaninger (2006). Presentation at the 2nd meeting of the ECAC Training Task Force, European Civil Aviation Conference, Brussels, Belgium, May 25, 2006.
41. Schwaninger, A. (2006). Main findings of scientific studies regarding display technology, selection, training and competency assessment of screeners. Presentation at the 2nd meeting of the ECAC Training Task Force, European Civil Aviation Conference, Brussels, Belgium, May 24, 2006.
42. Schwaninger, A. (2006). Framework regulation 2320/2002 and implementing regulation 622/2003: staff recruitment and training issues. Presentation at the 2nd meeting of the ECAC Training Task Force, European Civil Aviation Conference, Brussels, Belgium, May 23, 2006.
43. Schwaninger, A. (2006). Increased detection performance in airport security screening using an x-ray object recognition test in pre-employment assessment. European Civil Aviation Conference, 31st Meeting of the Task Force for the Study of Technical Aspects of Security Problems, Munich, Germany, May 5, 2006.
44. Schwaninger, A. (2006). The x-ray imagery: enhancing the value of the pixels. European Civil Aviation Conference, 31st Meeting of the Task Force for the Study of Technical Aspects of Security Problems, Munich, Germany, May 5, 2006.

45. Schwaninger, A. (2006). White Paper on Competency Assessment of Screeners by InterTAG CAWG. Invited presentation at the 1st meeting of the ECAC Training Task Force, European Civil Aviation Conference, Brussels, Belgium, February 28, 2006.
46. Schwaninger, A. (2006). National Aviation Security Quality Control Programme: Best practice for selection, adaptive CBT, and threat image projection. Invited presentation at the 1st meeting of the ECAC Training Task Force, European Civil Aviation Conference, Brussels, Belgium, February 28, 2006.
47. Schwaninger, A. (2006). Best practice in selection, training and competency assessment of x-ray screeners. Invited presentation at the ECAC Security Forum, Paris, January 31, 2006.
48. Schwaninger, A. (2006). Study on the value of image enhancement features in hold and cabin baggage screening. Presentation at the 16th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), January 19, 2006, Montreal, Canada.
49. Schwaninger, A. (2006). Aviation security human factors programme in Switzerland. Presentation at the 16th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), January 17, 2006, Montreal, Canada.
50. Schwaninger, A. (2006). Selection, training and threat image projection (TIP). Invited presentation for the Ministry of Interior, Berlin, Germany, January 6, 2006.
51. Schwaninger, A. (2005). Evaluation and certification of airport security screeners. Invited lecture at the Workshop for Infrastructure Certification, Federal Office of Civil Aviation and EPFL Lausanne, Murten, Switzerland, November 1, 2005.
52. Schwaninger, A. (2005). Our best aviation security tool. Invited lecture at AVSEC World 2005, Geneva, Switzerland, October 27, 2005.
53. Schwaninger, A. (2005). Training of x-ray image inspection. Invited lecture at ERFA-Tagung für polizeiliche Entschärfer, Schweizerisches Polizeinstitut Neuenburg, Savatan, Switzerland, September 29, 2005.
54. Schwaninger, A. (2005). Selection tests, training and threat image projection (TIP). Invited presentation for Regierung von Mittelfranken and Sicherheitsgesellschaft am Flughafen Nürnberg, Nürnberg airport, Germany, September 19, 2005.
55. Schwaninger, A. (2005). Modern technologies for increasing the efficiency of the security at the airports and seaports. Invited lecture at the International Scientific Conference on Current State and Prospects of Security Structures in the Balkans, Sofia, Bulgaria, September 16, 2005.
56. Schwaninger, A. (2005). Increasing effectiveness and efficiency in airport security screening. Invited presentation for screening companies at Amsterdam Airport Schiphol, Amsterdam, The Netherlands, August 29, 2005.
57. Schwaninger, A. (2005). Threat image projection and adaptive computer-based training. Invited lecture at the Air & Port Security Expo, Brussels, Belgium, June 22, 2005.
58. Schwaninger, A. (2005). Selection, training and competency assessment of airport security screeners. Invited lecture for the Civil Aviation Administration, airports and screening companies, Oslo, Norway, June 9, 2005.
59. Schwaninger, A. (2005). Aviation security human factors. Invited lecture at the Toulouse Business School / Groupe ESC Toulouse, Aviation MBA, Toulouse, France, June 7, 2005.
60. Schwaninger, A. (2005). Warum wir öfter mal blind sind. Eingeladener Vortrag an der BrainFair 2005, Forum 3: Bewusste und unbewusste Wahrnehmung, ETH Zürich, 22.

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61. Schwaninger, A. (2005). Training of x-ray image inspection. Invited lecture at ERFA-Tagung für polizeiliche Entschärfer, Schweizerisches Polizeinstitut Neuenburg, Savatan, May 18, 2005.
62. Schwaninger, A. (2005). Threat image projection (TIP): The balance between security measures and good customer service? Invited lecture, 4th ACI EUROPE Airport Security Summit, "Airport security: Evolving threats, evolving solutions", Amsterdam, The Netherlands, May 9-11, 2005.
63. Schwaninger, A. (2005). Integrating performance measurement, motivation and training in airport security screening. Presentation at the 15th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), Transportation Security Administration, W.J. Hughes Technical Center, Atlantic City, U.S.A., April 5, 2005.
64. Schwaninger, A. (2005). White paper on assessing x-ray image interpretation competency. Presentation at the 15th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), Transportation Security Administration, W.J. Hughes Technical Center, Atlantic City, U.S.A., April 5, 2005.
65. Schwaninger, A. (2005). University of Zurich Aviation Security HF Factors Program. Presentation at the 15th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), Transportation Security Administration, W.J. Hughes Technical Center, Atlantic City, U.S.A., April 5, 2005.
66. Schwaninger, A. (2005). Perception and recognition of faces: Bridging the gap between psychophysics and computational modelling. Invited lecture, Department of Industrial Engineering, University at Buffalo: SUNY, U.S.A., April 4, 2005.
67. Schwaninger, A. (2005). 3rd generation threat image projection: Adaptive, diagnostic and remedial. Invited lecture, Multilateral Workshop on Threat Image Projection, European Civil Aviation Conference and TAIEX, Tallinn, Latvia, March 24, 2005.
68. Schwaninger, A. (2005). Selection, training and competency assessment. Invited lecture at the Multilateral Workshop on Threat Image Projection, European Civil Aviation Conference and TAIEX, Tallinn, Latvia, March 24, 2005.
69. Schwaninger, A. (2005). Using threat image projection data for assessing individual screener performance. Presentation at the European Civil Aviation Conference, 28th meeting of the Task Force for the Study of Technical Aspects of Security Problems, Tallinn, Estonia, December 16, 2004.
70. Schwaninger, A. (2005). Wahrnehmung und Erkennung von Gesichtern. Vortrag am 4. Dissertationswettbewerb der Fachgruppe Allgemeine Psychologie. FU Berlin, Berlin, Deutschland, March 10, 2005.
71. Schwaninger, A. (2005). Increasing security and efficiency in x-ray screening. Invited presentation at Aeropuertos Españoles y Navegación Aérea (AENA), Madrid, Spain, March 3, 2005.
72. Schwaninger, A. (2005). Aviation security human factors projects: Overview and new developments. Presentation at TECOSA (Siemens Group Spain), Madrid, Spain, March 1, 2005.
73. Schwaninger, A. (2005). Increasing efficiency in security services. Invited lecture, Securitas Headquarters, Brussels, Belgium, February 21, 2005.
74. Schwaninger, A. (2004). Research project on increasing security and efficiency in X-ray screening. Presentation at Stuttgart airport, December 17, 2004.

75. Schwaninger, A. (2004). Measuring visual abilities and visual knowledge of aviation security screeners. Presentation at the European Civil Aviation Conference, 27th meeting of the Task Force for the Study of Technical Aspects of Security Problems, ECAC headquarters, Paris, December 16, 2004.
76. Schwaninger, A. (2004). Enhancement of aviation security human factors. Invited lecture at the Ottawa Industrial & Organizational Psychology Group, November 10, Ottawa, Canada.
77. Schwaninger, A. (2004). Increasing efficiency in airport security screening. Presentation at AVSEC World 2004, November 3-5, Vancouver, B.C., Canada.
78. Schwaninger, A. (2004). Configural processing of facial emotion. Invited presentation at the symposium on understanding emotions: insights into emotion, communication and the brain. Funded by the Center for Junior Research Fellows Konstanz and the Young Scientist Program (WIN) of the Heidelberg Academy of Science, September 23-26, 2004, Castle Freudental, Germany.
79. Schwaninger, A. (2004). Face recognition based on component and configural processing. Invited lecture, Department of Psychology, University of Mainz, Germany, 22.06.2004.
80. Schwaninger, A. (2004). Wahrnehmung: Rolle von Lernerfahrung, Gehirn und Aufmerksamkeit. Eingeladener Vortrag, Fortbildungsveranstaltung des externen psychiatrischen Dienstes Aarau, 03.04.2004.
81. Schwaninger, A. (2004). Adaptive training and adaptive threat image projection. Invited lecture, Canadian Air Transport Security Authority (CATSA), Ottawa, Canada, 22.03.2004.
82. Schwaninger, A. (2004). Reliable performance measurement, training and threat image projection. Invited lecture, Canadian Air Transport Security Administration (CATSA) and Transport Canada, Ottawa, 22.03.2004.
83. Schwaninger, A. (2004). Visual cognition, human factors and aviation security. Invited lecture, Transport Canada, Ottawa, Canada, 22.03.2004.
84. Schwaninger, A. (2004). Quality control, adaptive training and selection in aviation security. Invited talk at the Canadian Air Transport Security Authority (CATSA), Ottawa, Canada, 22.03.2004.
85. Schwaninger, A. (2004). Aviation security projects overview. Presentation at the 14th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), 16.03.2004, Brussels, Belgium.
86. Schwaninger, A. (2004). Certification of aviation security screeners in Switzerland. Presentation at the 14th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), 17.03.2004, Brussels, Belgium.
87. Schwaninger, A. (2004). White paper on certification and competency assessment. Presentation at the 14th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), 18.03.2004, Brussels, Belgium.
88. Schwaninger, A. (2004). Tests und Training von Luftsicherheitsassistenten (testing and training of aviation security screeners). Invited talk at the Ministry of Interior, Berlin, Germany, 11.02.2004.
89. Schwaninger, A. (2004). Certification of Aviation Security Screeners at Zurich Airport 2003/2004. Presentation at the Federal Office of Civil Aviation (FOCA), Bern, Switzerland, 24.02.2004.
90. Schwaninger, A. (2004). Selection, training and quality control. Invited presentation at European Aviation Security Training Institute (EASTI), Brüssel, Belgium, 28.01.2004.

91. Schwaninger, A. (2004). Certification and competency assessment. Presentation at the InterTAG workshop for the ECAC Technical Task Force, ECAC headquarters, January 6, 2004.
92. Schwaninger, A. (2004). Selection of aviation security screeners. Presentation at the InterTAG workshop for the ECAC Technical Task Force, ECAC headquarters, January 6, 2004.
93. Schwaninger, A. (2004). Adaptive training and threat image projection. Presentation at the InterTAG workshop for the ECAC Technical Task Force, ECAC headquarters, January 6, 2004.
94. Schwaninger, A. (2003). Training, tip and quality control. Invited lecture at the Multilateral Workshop on the National Civil Aviation Security Quality Control Programme by ECAC and TAIEX, Brussels, 12.12. 2003.
95. Schwaninger, A. (2003). A practical approach to screener certification. Invited lecture at the multilateral workshop on the National Civil Aviation Security Quality Control Programme by ECAC and TAIEX, Brussels, 12.12. 2003.
96. Schwaninger, A. (2003). Perception and representation of faces. Invited lecture at the colloques cerveau et cognition, Hôpital Universitaire de Genève, 09.12.2003.
97. Schwaninger, A. (2003). Certification of aviation security screeners using a scientific approach based on visual cognition, signal detection and psychometrics. Invited lecture, Schiphol Airport, Amsterdam, The Netherlands, 17.11.2003.
98. Schwaninger, A. (2003). Applications of signal detection theory for measuring threat detection performance in CBT and TIP. Invited lecture at TNO Human Factors, Soesterberg, The Netherlands, 13.11.2003.
99. Schwaninger, A. (2003). Training and TIP in aviation security. Invited lecture at Schiphol Airport, Amsterdam, The Netherlands, 13.11.2003.
100. Schwaninger, A. (2003). What visual cognition can tell us for TIP and training libraries. Invited lecture at the European Civil Aviation Conference Workshop on Threat Image Projection, STBA, Paris, 01.09.2003.
101. Schwaninger, A. (2003). Training, Auswahl und Zertifizierung von Luftsicherheitsassistenten. Vortrag beim Bundesministerium des Innern, Berlin, 31.07.2003.
102. Schwaninger, A. (2003). Visual cognition and airport security. Invited lecture at the U.S. Department of Homeland Security, Transportation Security Administration (TSA), 21.07.2003, Arlington VA, USA.
103. Schwaninger, A. (2003). Projekte zur Steigerung der Sicherheit und Effizienz bei Gepäckkontrollen am Flughafen Zürich. Eingeladener Vortrag an der Sitzung des Nationalen Sicherheitsausschusses Luftfahrt, Bundesamt für Zivilluftfahrt (BAZL), Bern, 01.07.2003.
104. Schwaninger, A. (2003). Measuring effectiveness of computer-based training using threat image projection and computer tests. Presentation at the 13th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), 25.06.2003, Farnborough, England.
105. Schwaninger, A. (2003). Aviation security certification programme. Presentation at the 13th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), 25.06.2003, Farnborough, England.
106. Schwaninger, A. (2003). X-Ray Tutor for HBS and CBS -individually adaptive training. Presentation at the 13th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), 24.06.2003, Farnborough, England.

107. Schwaninger, A. (2003). Certification of aviation security screeners using scientific tests. Invited presentation at the European Aviation Security Training Institute (EASTI), Bruxelles, Belgium, 20.06.2003.
108. Schwaninger, A. (2003). Increasing detection performance using individually adaptive training. Invited presentation at the European Aviation Security Training Institute (EASTI), Bruxelles, Belgium, 19.06.2003.
109. Schwaninger, A. (2003). Psychophysik der Gesichterwahrnehmung. Eingeladener Vortrag an der 2. Bundesfachtagung für Phantombildanwender und visuelle Fahndungshilfen, Freiburg in Breisgau, 16.06.2003.
110. Schwaninger, A. (2003). Wahrnehmung und Wiedererkennung von Gesichtern. Eingeladener Vortrag, Kolloquium des Instituts für Psychologie der Universität Bern, 12.06.2003.
111. Schwaninger, A., Hofer, F., Michel, S., & Bülthoff, H.H. (2003). Top-down effects in object recognition. CogVis Annual meeting (Yr 2), Leeds, 02.06.2003.
112. Schwaninger, A. (2003). Forschungsprojekte am Flughafen Zürich 2000-2003, Zusammenfassung und Überblick. Eingeladener Vortrag am Bundesamt für Zivilluftfahrt, Bern, 09.05.2003.
113. Schwaninger, A. (2003). Selektion, Evaluation und Training von Sicherheitsbeauftragten. Vortrag für Aushebungsoffiziere der Schweizer Armee. Flughafen Zürich, 11.04.2003.
114. Schwaninger, A. (2003) Human Factors research projects at Zurich Airport 2000-2003. Invited lecture for the ECAC Operational Task Force, Zurich Airport, March, 6, 2003.
115. Schwaninger, A. (2003). Forschungsprojekte am Flughafen Zürich -Überblick und Zusammenfassung. Vortrag für Behörden, Flughäfen, Polizei, Militär und Aviatik Firmen. Flughafen Zürich, 03.06.2003.
116. Schwaninger, A. (2003). Main results of EU project CogVis Year 1. Labmeeting presentation, Max Planck Institute for Biological Cybernetics, Psychophysics Department, Tübingen, Germany, 14.01.2003.
117. Schwaninger, A. (2002). Tutorial on signal detection theory. CogVis Meeting, Hamburg, 25.11.2002.
118. Schwaninger, A. (2002). Role of parts and configuration in face and object recognition. CogVis Annual meeting (Yr 1), Tübingen, Germany, June 3-4.
119. Schwaninger, A., Cunnigham, D., Kleiner, M. (2002). Illusions with moving faces. Presentation at the MPI for Biological Cybernetics, MOVING FACE MEETING, Tübingen, Germany, November 4, 2002.
120. Schwaninger, A. (2002). Parts and wholes in moving Thatcher faces. Graduate Program Cognitive Psychology, seminar on cognitive neuroscience, Sion, September, 4, 2002.
121. Schwaninger, A. Cunnigham, D., Kleiner, M. (2002). Moving the Thatcher illusion. Presentation at MPI for Biological Cybernetics, FORCE, Tübingen, Germany. June, 16, 2002.
122. Schwaninger, A. (2002). Wahrnehmung und interne Repräsentation von Gesichtern. Eingeladener Vortrag, Institut für Psychologie, Ernst-Moritz-Arndt Universität Greifswald, 11. Juni 2002.
123. Schwaninger, A. (2002). Selection and assessment of airport security screener personnel. Presentation at the 12th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), Mai 8, 2002, Montreal, Canada.

124. Schwaninger, A. (2002). Individually adaptive training system for increasing threat detection performance. Presentation at the 12th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), Mai 9, 2002, Montreal, Canada.
125. Schwaninger, A. (2002). Vorinformation für TIPTS (Threat Image Projection Training System). Vortrag, Flughafen Zürich, 25. und 30.04.2002.
126. Schwaninger, A. (2002). Steigerung der Sicherheit und Effizienz bei der Sicherheitskontrolle am Flughafen. Eingeladener Vortrag für das Bundesministerium des Innern, Berlin, 22.04.2002.
127. Schwaninger, A. (2002). Wahrnehmung von Gesichtern und Objekten. Eingeladener Vortrag an der BrainFair 2002, ETH Zürich, 18. März 2002.
128. Schwaninger, A. (2002). Anwendung wissenschaftlicher Methoden für die Flughafensicherheit. Eingeladener Vortrag für die Leitung des Flughafens Frankfurt, 05.03.2002.
129. Schwaninger, A. (2002). Leistungsbeurteilung und Weiterbildung für Luftsicherheitsassistenten. Vortrag für den Betriebsrat der FRAPORT AG. Flughafen Frankfurt, 15.02.2002.
130. Schwaninger, A. (2002). Wahrnehmung und Erkennung von Gesichtern. Doktorandenkolloquium des Psychologischen Institutes der Universität Zürich, 15.01.2002.
131. Schwaninger, A. (2002). Assessment und Training. Informationsveranstaltung für Flughäfen, Sicherheitsfirmen und Behörden im Flughafensicherheitsbereich. Vortrag, Flughafen Frankfurt, 14.01.2002.
132. Schwaninger, A. (2001). When and why is face recognition more orientation sensitive than object recognition? Invited lecture, Department of Psychology, University of Dundee, Schottland, 09.03.2001.
133. Schwaninger, A. (2001). The deeper answer to the question: Why is face recognition so orientation-sensitive? Invited lecture, Department of Psychology, Goldsmiths College, University of London, England, 12.03.2001.
134. Schwaninger, A. (2001). Basic and applied aspects of visual cognition. Invited lecture, Centre for human sciences, DERA, Farnborough, England, 14.03.2001.
135. Schwaninger, A. (2001). Perception and representation of faces: Towards a resolution of the inversion debate. Invited lecture, Neuroinformatics Colloquia -SS 01, Institute of Neuroinformatics, University of Zurich, 20.04. 2001.
136. Schwaninger, A. (2001). Ziele, Durchführung und Ergebnisse des Projektes Testserie 2001. Vortrag bei der Flughafenpolizei, Zürich Flughafen, 31.05. und 01.06. 2001.
137. Schwaninger, A. (2001). Parts and wholes -from faces to objects. Presentation at the cognitive vision system EU project, Kick-off meeting, Genova, 18.06.2001.
138. Schwaninger, A. (2001). University of Zurich aviation security human factors programme. Presentation at the 11th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), June 19, 2001, Brussels, Belgium.
139. Schwaninger, A. (2001). Using threat image projection for increasing performance. Presentation at the 11th International Aviation Security Human Factors Technical Advisory Group Meeting (InterTAG), June 20, 2001, Brussels, Belgium.
140. Schwaninger, A. (2001). How to measure and increase visual threat detection performance. Presentation for the CAA (belgian civil aviation administration) and BIAC (Brussels international airport company), Zurich Airport, June, 25, 2001.

141. Schwaninger, A. (2001). Representation and perception in face recognition. Invited lecture, Centre for Brain and Cognitive Development, School of Psychology, Birkbeck College, September 10, 2001.
142. Schwaninger, A. (2000). Why upside down faces are hard to recognize. Invited lecture at the Young Psychologist Program of the XXVII International Congress of Psychology, Stockholm, Sweden, July 28.
143. Schwaninger, A. (2000). Face and object recognition: Different processing mechanisms, effects of orientation and expertise. Presentation in Graduate Program Cognitive Psychology, Bern, Switzerland, February 12, 2000.
144. Schwaninger, A. (2000). Richtungs-und Kontexteffekte bei der Wahrnehmung von Gesichtern. Eingeladener Vortrag, Universität Bern, Institut für Psychologie, Kolloquium der Professoren Perrig, Oswald, Groner (POG), Bern, 8.6. 2000.
145. Schwaninger, A. (2000). Steigerung der Sicherheit und Effizienz bei der Gepäckkontrolle am Flughafen. Vortrag bei der Flughafenpolizei, Zürich Flughafen, 21.6.2000.
146. Schwaninger, A. (2000). Perception and representation of faces. Presentation at the doctoral course "Language and Memory" Charmey FR, September 17-23, 2000.
147. Schwaninger, A. (2000). Using PowerPoint for scientific presentations, Part II. Lecture held at the scientific meeting of the Graduate Program Cognitive Psychology, November 3, Geneva, Switzerland.
148. Schwaninger, A. (2000). Why is face recognition so orientation sensitive? Testing hypotheses for the face inversion effect. Invited lecture, November 21, Department of Psychology, Dalhousie University, Halifax, Canada.
149. Schwaninger, A. (2000). Perception of disoriented faces. Invited lecture, November 23, Department of Psychology, University of Prince Edward Island, Canada.
150. Schwaninger, A. (2000). Ziele, Durchführung und Ergebnisse des Projektes Testserie 2000. Vortrag bei der Flughafenpolizei, Zürich Flughafen, 19. und 21.12. 2000.

*END OF DOCUMENT*

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