

**Prime Re Academy** – stands for reengineering the academic state-of-the-art into practical applications. It is a “refinery” of useful techniques and important methods, in which longstanding PRS experts train other insurance professionals with hands-on workshops.

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Prime Re Academy is pleased to invite you to attend its next workshop in Zurich, Switzerland, in March 2017. Focus will be set on the following topic:

### **Modelling Dependencies**

When quantifying or aggregating risks, it is crucial to account for dependencies and model them correctly. This is particularly relevant in the context of modern risk based solvency and capital schemes, such as the Swiss Solvency Test, Solvency II or the Mexican RCS scheme. Furthermore, modelling dependencies is also of utmost importance in reserving, pricing or risk transfer exercises involving more than one risk.

The workshop will present the main methods used in the insurance and finance industries:

- causal dependencies
- factor-models
- statistical dependencies: copulas
- compound Poisson processes and Lévy copulas
- model selection and their calibration

It addresses both, the underlying theory and concepts as well as their practical implementations with Excel® templates. In particular, it will enable participants to model dependencies directly on their laptop, which can later be applied promptly in their daily assignments.

### **Target Group**

The workshop is designed for all professionals who are interested in actuarial and financial modelling. Participants do not need to be fully qualified actuaries. However, they will benefit from a good command of Excel® (excluding VBA). In addition, they should be familiar with elementary concepts of insurance, statistics and stochastic modelling.

## Conceptual framework

The Prime Re Academy workshops are of technical nature and structured so that theory and practice alternately complement each other, creating a lively learning platform. We simultaneously present on two separate screens the theoretical foundations in PowerPoint® format and the matching practical applications on an Excel® platform. Thanks to the interlocking of theory and practice, the course contents can be taught in a most efficient manner and the participants are challenged intensively.

**Participants should bring along their own laptops** so that they can implement and test the theoretical concepts with the Excel® prototypes we will hand over to them.

Moreover, to enhance the international learning experience and networking, the workshops starts in the afternoon and includes a joint dinner: this way the participants quickly get to know each other and the lecturers, so that promptly a dynamic atmosphere of mutual challenge and know-how transfer sets in. In particular we encourage the participants to steer the focus of the workshop according to their current needs, e.g. with more emphasis on life or property & casualty business.

## Dates and Schedule

Wednesday, 8 March 2017	12.30 – 14.00	<i>registration</i>
	14.00 – 18.00	<i>workshop</i>
	18.30 – 20.30	<i>dinner</i>
Thursday, 9 March 2017	08.30 – 12.30	<i>workshop</i>
	12.30 – 14.00	<i>lunch</i>
	14:00 – 18.00	<i>workshop</i>
	18.30 – 20.30	<i>dinner</i>
Friday, 10 March 2017	08.30 – 12.30	<i>workshop</i>
	12.30 – 14.00	<i>lunch</i>

## Fees

**CHF 1'500** if paid before or on 13 February 2017

**CHF 1'800** if paid after 13 February 2017

A discount of CHF 500 for the third participant of the same company will be granted.

These fees are binding and must be transferred latest 27 February 2017 on the Credit Suisse account:

SWIFT: CRESCHZZ80A  
IBAN: CH25 0483 5111 8080 7100 0  
Beneficiary: Prime Re Academy  
c/o Prime Re Services AG  
Lindenstrasse 2  
6340 Baar, Switzerland

The fees will be refunded in total in case of cancellation before 27 February 2017 or if the workshop must be cancelled.

The fees include:

- the workshop
- the documentation
- the prototypes in Excel®
- the dinners and lunches

## Venue

Hotel Ascot, Tessinerplatz 9, 8002 Zurich, Switzerland

Fon + 41 44 208 14 14

Fax + 41 44 208 14 20



Participants from abroad can reserve a room at approx. 320.00 CHF per night in the venue hotel. Alternatively, they can ask us for assistance with booking a room at another convenient location.

## Registration

Registration will be closed after 27 February 2017.

[Modelling Dependencies](#)



## CPD Credits

Attendance to the workshop will automatically credit members of the Swiss Actuarial Association with 14 CPD credit points. Members of other actuarial associations will receive a certificate they can submit to their CPD committee.

## Contact

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## Lecturers

Dr Frank Cuypers

has led numerous actuarial engineering and modeling courses and workshops in Europe and Latin America. He comes with a vast lecturing experience and a prominent scientific track-record in modeling complex systems. As a Swiss Re Executive and Chief Actuary at the former Zurich Re in Cologne, he has wide experience in most actuarial disciplines and lines of business, which he has deployed at KPMG and PwC to advise leading providers of financial services and Government Agencies. He is a fully qualified member of the German and Swiss Actuarial Associations (DAV and SAV), which he has served on numerous committees.



Dr Pedro Fonseca

is an expert in risk and data modelling, with 13 years of experience in the financial industry. Before joining Systemorph as head of Business Solutions, he headed the Risk Analytics & Reporting team at SIX, where he was responsible for quantifying and reporting risks across all business areas. Before that, he held various positions in the hedge fund, private equity, and risk data industries. Pedro holds a PhD in theoretical Physics from Rutgers University and frequently holds presentations and seminars.