

Assoc. Prof. Dr. Uğur Karabey

Department of Actuarial Sciences,
Faculty of Science,
Hacettepe University,
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Education:

- **PhD** in Actuarial Mathematics,
Heriot-Watt University, Edinburgh, United Kingdom,
September 2008 - June 2012
Supervisors: Dr. Torsten Kleinow, Prof. Andrew Cairns

Thesis: Risk Capital Allocation and Risk Quantification in Insurance Companies
- **MSc** in Actuarial Sciences,
Hacettepe University, Ankara, TÜRKİYE,
September 2004 - July 2007
Supervisor: Prof. Ömer Esensoy

Thesis: Bayesian Analysis of Road Accidents
- **BSc** in Statistics,
Hacettepe University, Ankara, TÜRKİYE,
September 2000 - January 2004

Work & Administrative & Experience:

- **Executive Board Independent Member**, March 2024 – Ongoing
ANKARA Insurance Company, TÜRKİYE
- **Department Chair**, November 2023 – Ongoing
Department of Actuarial Sciences, Hacettepe University, Ankara, TÜRKİYE
- **Board Member**, November 2023 – Ongoing
Faculty of Science, Hacettepe University, Ankara, TÜRKİYE
- **Assoc. Prof. Dr.**, July 2023 - Ongoing
Department of Actuarial Sciences, Hacettepe University, Ankara, TÜRKİYE
- **Vice Dept. Chair**, October 2020 -October 2023
Department of Actuarial Sciences, Hacettepe University, Ankara, TÜRKİYE

- **Executive Board Member**, October 2020 – July 2023
Faculty of Science, Hacettepe University, Ankara, TÜRKİYE
- **Assist. Prof. Dr.**, September 2013 – June 2023
Department of Actuarial Sciences, Hacettepe University, Ankara, TÜRKİYE
- **Affiliated Faculty Member**, September 2013 - Ongoing
Institute of Applied Mathematics, Middle East Technical University,
Ankara, TÜRKİYE
- **Assistant Editor**, September 2013 – Ongoing
[Journal of Statisticians: Statistics and Actuarial Sciences](#)
- **Research Assistant, Dr.**, June 2012 – August 2013
Department of Actuarial Sciences, Hacettepe University, Ankara, TÜRKİYE
- **Assistant Examiner**, January 2009 - May 2012
CT3 Probability and Statistics, The Actuarial Profession (IFoA), United Kingdom
- **Tutorial, Marking and Laboratory Assistant**, June 2009 - May 2012
Heriot-Watt University, Edinburgh, United Kingdom
- **Research Assistant**, December 2006 - May 2012
Department of Actuarial Sciences, Hacettepe University, Ankara, TÜRKİYE
- **Summer Internship**, July 2003
Turkish Statistical Institute, Ankara, TÜRKİYE

Papers:

- Lazoğlu, Ç., Karabey, U., 2024, “Evaluating the Impact of Stochastic Interest Rates and COVID-19 on Financial Performance Under IFRS 17”, Journal of Demographic Economics, doi:10.1017/dem.2024.25, Published online 23 December 2024 (Indexed in SSCI, SCOPUS)
- Lazoğlu, Ç., Yeldan, M., Karabey, U., 2024, “Importance of Interest Rate on Annuity Prices: A Case Study”, Afyon Kocatepe University Journal of Science and Engineering, 24 (2024) 031307, p. 593-601, (TUBITAK-ULAKBIM)
- Işık, H., Karasoy, D. Karabey, U., 2023, “A new adjusted Bayesian method in Cox regression model with covariate subject to measurement error”, Hacettepe Journal of Mathematics and Statistics, Vol. 52, Issue 5, p. 1367-1378 (Indexed in SCI Expanded, SCOPUS, TUBITAK-ULAKBIM)
- Külekçi Yıldırım, B., Karabey, U., Selçuk Kestel, S., 2023, “Assesment of dependent risk using extreme value theory in a time-varying framework”, Hacettepe Journal of Mathematics and Statistics, Vol. 52, Issue 1, p. 248-267 (Indexed in SCI Expanded, SCOPUS, TUBITAK-ULAKBIM)
- Ata Tutkun, N., Koyuncu, N., Karabey, U., 2019, “Discrete-time survival analysis under rank set sampling: an application to Turkish motor insurance data”, Journal of Statistical Computation and Simulation, Vol. 89, Issue 4, p. 660-667 (Indexed in SCI Expanded, Web of Science, EBSCO, SCOPUS)

- Gümüřok, M., řimřek, E., Erdem, M., Demirađ, S., **Karabey, U.**, 2018, “*Evaluation of Hygiene, Attitude, and Habits on The Removable Dentures in a Group of Patients*”, Clinical and Experimental Health Sciences, Vol. 8, Issue 2, p. 93-97 (Indexed in ESCI, TUBITAK-ULAKBIM)(out of scope)
- Acar řentürk, A., **Karabey, U.**, Gregori, D., 2018, “*Incorporating Heterogeneity into The Prediction of Total Claim*”, Hacettepe Journal of Mathematics and Statistics, Vol. 47, Issue 5, p. 1321-1334 (Indexed in SCI Expanded, SCOPUS, TUBITAK-ULAKBIM)
- Ata Tutkun, N., **Karabey, U.**, 2018, “*Discrete-Time Survival Models Applied to Turkish Motor Insurance Data*”, IJEES International Journal of Ecological Economics and Statistics, Vol. 39, Issue 1, p. 26-36 (Indexed in ESCI, SCOPUS, EconLit, JEL, Current Index to Statistics (CIS), International Statistical Institute (ISI), IndexCopernicus)
- Acar řentürk, A., **Karabey, U.**, 2016, “*Comparing One-Part Models and Two-Part Models for The Prediction of Total Claim Amount in Health Insurance*”, Journal of Statisticians: Statistics and Actuarial Sciences 9, p. 87-97 (Indexed in TUBITAK-ULAKBIM, Current Index to Statistics (CIS) in between 2008-2016, currently hosted by American Mathematical Society (AMS))
- řahin, ř., **Karabey, U.**, Karageyik, B.B., Nevruz, E. ve Yıldırak, K., 2016, “*Actuarial Premium Calculation for Wheat Crop Insurance in Turkey*”, Turkish Journal of Agricultural Economics, 22(2), pp. 37-47 (Indexed in EBSCO, TUBITAK-ULAKBIM)
- **Karabey, U.**, řahin, ř., Arık, A., 2016, “*Pricing Turkish Longevity Risk*”, IJEES International Journal of Ecological Economics and Statistics, Vol. 37, Issue 2, p. 46-55 (Indexed in ESCI, SCOPUS, EconLit, JEL, Current Index to Statistics (CIS), International Statistical Institute (ISI), IndexCopernicus)
- **Karabey, U.**, 2015, “*Importance of Modelling the Dependence for Risk Capital Allocation*”, Journal of Statisticians: Statistics and Actuarial Sciences 8, p. 1-9 (Indexed in TUBITAK-ULAKBIM, Current Index to Statistics (CIS) in between 2008-2016, currently hosted by American Mathematical Society (AMS))
- **Karabey, U.**, 2015, “*Risk Capital Allocation and Sensitivity Analysis in Non-Life Insurance Companies*”, IJSE International Journal of Statistics and Economics, Vol. 16, Issue 3, p.30-42 (Indexed in EconLit, Mathematical Reviews, Current Index to Statistics (CIS), Zentralblatt MATH, MathSciNet, International Statistical Institute (ISI), Ulrich's Periodicals Directory, IndexCopernicus)
- Acar, řentürk A., **Karabey, U.**, 2015, “*Risk Measurement for Motor Third Party Liability Insurance in Turkey*”, SIGMA Journal of Engineering and Natural Sciences 33, p. 103-111 (Indexed in ESCI, WorldCat, Ebscohost, ResearchBible, Stanford University Libraries)
- **Karabey, U.**, Kleinow, T., Cairns, A.J.G., 2014, “*Factor Risk Quantification in Annuities*”, Insurance: Mathematics and Economics, Vol. 58, p. 34-45 (Indexed in SCI Expanded, SSCI)

- Arık, A., Nevruz, E., **Karabey, U.**, 2013, “*Measurement of Financial Risks of Some Emerging Markets by Using Extreme Value Theory*”, Journal of Statisticians: Statistics and Actuarial Sciences 6, p. 86-95 (Indexed in Current Index to Statistics (CIS) in between 2008-2016, currently hosted by American Mathematical Society (AMS))
- **Karabey, U.**, 2012, “*Risk Measures and Risk Capital Allocation*”, Journal of Statisticians 5, p. 32-42 (Indexed in Current Index to Statistics (CIS) in between 2008-2016, currently hosted by American Mathematical Society (AMS))
- **Karabey, U.**, Ata, N., 2008, “*Survival analysis in insurance sector: An application to long-term life insurance*”, Journal of Statisticians 2, p. 80-87 (Indexed in Current Index to Statistics (CIS) in between 2008-2016, currently hosted by American Mathematical Society (AMS))
- Ata, N., Özkök, E., **Karabey, U.**, 2008, “*Survival Data Mining: An Application To Credit Card Holders*”, SIGMA Journal of Engineering and Natural Sciences 26-1, p. 33-41 (Indexed in WorldCat, Ebscohost, ResearchBible, Stanford University Libraries)
- **Karabey, U.**, Esensoy, Ö., 2008, “*Bayesian Analysis of Road Accidents Proportions*”, Journal of Statisticians 1, p. 23-32 (Indexed in Current Index to Statistics (CIS) in between 2008-2016, currently hosted by American Mathematical Society (AMS))

Proceedings:

- Yalçın Düzgün, M., **Karabey, U.**, “*The Effect Of Feature Selection On Bank Stock Price Prediction Using Deep Learning Models*”, 8th International Researchers, Statisticians and Young Statisticians Congress, Adana, TÜRKİYE, 28-30 November 2024 (International, Proceeding)
- Yalçın Düzgün, M., **Karabey, U.**, “*A Comparative Analysis Of Random Forest And Recurrent Neural Network Methods Through A Technology Index*”, International Data Science and Statistics Congress - IDSSC 2024, Ankara, TÜRKİYE, 15-17 October 2024 (International, Proceeding)
- **Karabey, U.**, “*Actuarial Opinion on Liability Insurance Bodily Compensation Calculations*”, 4th Insurance and Corporate Law Symposium, Faculty of Law, Hacettepe University, Ankara, TÜRKİYE, 11-12 October 2024 (National, Proceeding)
- Lazoğlu, Ç., **Karabey, U.**, “*Impact of COVID-19 On Annuity: Lee-Carter and Temporary Mortality Jump Model*”, 5th International Applied Statistics Congress, İstanbul, TÜRKİYE, (Virtual), 21 – 23 May 2024 (International, Proceeding)
- Kurtçu, M., Bulut Karageyik, B., **Karabey, U.**, “*Evaluation of Portfolio Performance Ratio for Achieving Above-Index Returns: A Case Study on Istanbul Stock Exchange (XU030)*”, 5th International Applied Statistics Congress, İstanbul, TÜRKİYE, 21 – 23 May 2024 (International, Proceeding)
- **Karabey, U.**, “*The Actuary’s Perspective: Related Issues*”, 3rd Disability Expert Conference, Hacettepe University, Ankara, TÜRKİYE, 7-9 December 2023 (National, Proceeding)

- Yalçın Düzgün, M., **Karabey, U.**, “*Stock Price Forecasting with Machine Learning and Deep Learning Models: Comparison and Analysis*”, 7th International Researchers, Statisticians and Young Statisticians Congress, İstanbul, TÜRKİYE, 02-05 November 2023 (International, Proceeding)
- Lazoğlu, Ç., Yeldan, M., **Karabey, U.**, “*Analyses of the effect of interest rate model on annuity: Case Study on Turkish Mortality*”, 6th International Researchers, Statisticians and Young Statisticians Congress, Antalya, TÜRKİYE, 03-06 November 2022 (International, Proceeding)
- Lazoğlu, Ç., **Karabey, U.**, “*The Turkish Macroeconomy and the Yield Curve: A Dynamic Latent Factor Approach*”, 12th International Statistics Days Conference, İzmir, TÜRKİYE, 13-16 October 2022 (International, Proceeding)
- Yeldan, M., **Karabey, U.**, “*The Comparison of Machine Learning and Traditional Approaches for Automobile Insurance Pricing*”, 12th International Statistics Days Conference, İzmir, TÜRKİYE, 13-16 October 2022 (International, Proceeding)
- Külekçi Yıldırım, B., **Karabey, U.**, Selçuk Kestel, S., “*Ruin Probability in Heavy-tailed Claims with Extreme Value Theory*”, 24th International Congress on Insurance: Mathematics and Economics, (Virtual), 5-9 July 2021 (International, Proceeding)
- Lazoğlu, Ç., **Karabey, U.**, “*The Effects of Mortality on IFRS17*”, 2th International Applied Statistics Congress, Tokat, TÜRKİYE, (Virtual), 29 June – 02 July 2021 (International, Proceeding)
- Külekçi Yıldırım, B., **Karabey, U.**, Selçuk Kestel, S., “*Backtesting in Time Varying Extreme Value Copulas for Dependent Risks*”, OICA: Online International Conference in Actuarial Science, Data Science and Finance, (Virtual), 28-29 April 2020 (International, Proceeding)
- **Karabey, U.**, “*Treatment Expense*”, 2nd Disability Expert Conference, Hacettepe University, Ankara, TÜRKİYE, 5-6 November 2019 (National, Proceeding)
- Yeldan, M., **Karabey, U.**, “*Reserve Estimation Methods based on Paid and Incurred Claims: A Case Study*”, 4th National Insurance and Actuary Congress, Ankara, TÜRKİYE, 24-25 June 2019 (National, Proceeding)
- **Karabey, U.**, “*The Role of Actuary in Calculation of Compensation for Bodily Injury*”, International Conference of Bodily Injury, Union of Turkish Bar Associations, Ankara, TÜRKİYE, 19-22 November 2018 (National, Proceeding)
- **Karabey, U.**, Ata Tutkun, N., “*An Application of Frailty Models in Motor Insurance*”, 11th International Statistics Days Conference, Bodrum, Muğla, TÜRKİYE, 3-7 October 2018 (International, Proceeding)
- **Karabey, U.**, Karagöz, D., “*Calculating Value at Risk: comparing of different estimators*”, 11th International Statistics Days Conference, Bodrum, Muğla, TÜRKİYE, 3-7 October 2018 (International, Proceeding)
- Karataş, R., **Karabey, U.**, “*Modelling Dependence Between Claim Frequency and Claim Severity: Copula Approach*”, 11th International Statistics Days Conference, Bodrum, Muğla, TÜRKİYE, 3-7 October 2018 (International, Proceeding)

- Külekçi Yıldırım, B., **Karabey, U.**, Selçuk Kestel, S., “*Extreme Value Theory on Valuation of Actuarial Risks*”, 11th International Statistics Days Conference, Bodrum, Muğla, TÜRKİYE, 3-7 October 2018 (International, Proceeding)
- Karataş, R., **Karabey, U.**, “*Loss Triangle: An Application of Copula Regression*”, 15th Applied Statistics 2018, Ribno (Bled), Slovenia, 23-26 September 2018 (International, Proceeding)
- Külekçi Yıldırım, B., Selçuk Kestel, S., **Karabey, U.**, “*Multivariate Extreme Value Theory on the Valuation of Tail Behaviour in Actuarial Risks*”, European Actuarial Journal Conference 2018, Leuven, Belgium, 9-11 September 2018 (International, Proceeding)
- **Karabey, U.**, “*Calculation of Disability Compensation: The Role of Actuary*”, Disability Expert Conference, Hacettepe University, Ankara, TÜRKİYE, 9-10 March 2018 (National, Proceeding)
- **Karabey, U.**, Pırıldak, M., “*Problems on Calculation of Disability Compensation*”, Disability Expert Conference, Hacettepe University, Ankara, TÜRKİYE, 9-10 March 2018 (National, Proceeding)
- **Karabey, U.**, “*Actuary: Calculation of Loss of Support Compensation*”, Insurance Law Conferences, İstanbul University and Insurance Association of TÜRKİYE, İstanbul, TÜRKİYE, 1-2 December 2017 and Bursa, TÜRKİYE, 2-3 February 2018 (National, Proceeding)
- Bulut Karageyik, B., **Karabey, U.**, “*A Perspective on analysis of loss ratio and Value at Risk under Aggregate Stop Loss Reinsurance*”, 10th International Statistics Congress, Ankara, TÜRKİYE, 6-8 December 2017 (International, Proceeding)
- Şentürk Acar, A., **Karabey, U.**, “*Modelling Dependence Between Claim Frequency and Claim Severity: Copula Approach*”, 10th International Statistics Congress, Ankara, TÜRKİYE, 6-8 December 2017 (International, Proceeding)
- Özalp, M. A., **Karabey, U.**, “*Investigation of the Insurer’s Optimal Strategy: An Application on Agricultural Insurance*”, 10th International Statistics Congress, Ankara, TÜRKİYE, 6-8 December 2017 (International, Proceeding)
- Külekçi Yıldırım, B., Selçuk Kestel, S., **Karabey, U.**, “*Risk Measurement Using Extreme Value Theory: The Case of BIST100 Index*”, 10th International Statistics Congress, Ankara, TÜRKİYE, 6-8 December 2017 (International, Proceeding)
- Kara, P., Ata Tutkun, N., **Karabey, U.**, “*Semi-Parametric Accelerated Failure Time Mixture Cure Model*”, 10th International Statistics Congress, Ankara, TÜRKİYE, 6-8 December 2017 (International, Poster)
- **Karabey, U.**, Ata Tutkun, N., “*An Application of Survival Models in Motor Insurance*”, 3rd International Researchers - Statisticians and Young Statisticians Congress, Konya, TÜRKİYE, 24-26 May 2017 (International, Proceeding)
- Acar Şentürk, A., **Karabey, U.**, “*Usage of Frequency-Severity Models in Pricing of Health Insurance*”, 3th Conference of Health Economics, Ankara, TÜRKİYE, 08-09 December 2016 (National, Proceeding)

- **Karabey, U.**, Ata Tutkun, N., “*Model Selection Criteria in Survival Analysis*”, 14th International Conference of Numerical Analysis and Applied Mathematics, Rhodes, Greece, 19-25 September 2016 (International, Proceeding, Indexed in Conference Proceedings Citation Index)
- Acar Şentürk, A., **Karabey, U.**, “*Modelling Number of Claims and Prediction of Total Claim Amount*”, 14th International Conference of Numerical Analysis and Applied Mathematics, Rhodes, Greece, 19-25 September 2016 (International, Proceeding, Indexed in Conference Proceedings Citation Index)
- Acar Şentürk, A., **Karabey, U.**, Gregori, D., “*Predicting the Annual Claim Amount of Individuals by Introducing Heterogeneity into Aggregate Loss Models*”, 36th International Symposium on Forecasting, Santander, Spain, 19-22 June 2016 (International, Proceeding)
- Acar Şentürk, A., **Karabey, U.**, “*Risk Measurement of Claim Amounts of A Turkish Private Health Insurance Company*”, 2th International Researchers - Statisticians and Young Statisticians Congress, Ankara, TÜRKİYE, 4-8 May 2016 (International, Proceeding)
- Özalp, M. A., **Karabey, U.**, “*An Optimal Investment Strategy and Sensitivity Analysis on Value at Risk*”, 2th International Researchers - Statisticians and Young Statisticians Congress, Ankara, TÜRKİYE, 4-8 May 2016 (International, Proceeding)
- **Karabey, U.**, Şahin, Ş., “*The Effects of Inflation Risk on the Pricing of Annuities*”, 2th National Insurance and Actuary Congress, Ankara, TÜRKİYE, 18-19 September 2015 (National, Proceeding)
- Acar Şentürk, A., **Karabey, U.**, “*Modelling the Number of Loss Claims: An Application for Private Health Insurance*”, 2th National Insurance and Actuary Congress, Ankara, TÜRKİYE, 18-19 September 2015 (National, Proceeding)
- **Karabey, U.**, Şahin, Ş., “*Quantification of Inflation Risk on the Annuities*”, 19th International Congress on Insurance: Mathematics and Economics, Liverpool, United Kingdom, 24-26 June 2015 (International, Proceeding)
- Acar Şentürk, A., **Karabey, U.**, Soriani, N., Gregori, D., “*Marginal Models: An Application to Insurance Data*”, 55th Meeting of the EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, TÜRKİYE, 14-16 May 2015 (International, Proceeding)
- **Karabey, U.**, Şahin, Ş., “*Risk measurement of the future annuity prices: effects of different interest rate models*”, 11th Applied Statistics 2014, Ribno (Bled), Slovenia, 21-24 September 2014 (International, Proceeding)
- Acar Şentürk, A., **Karabey, U.**, “*Predictive modeling for private health insurance claim severity in Turkey*”, 11th Applied Statistics 2014, Ribno (Bled), Slovenia, 21-24 September 2014 (International, Proceeding)
- Şahin, Ş., **Karabey, U.**, “*Assesing the Effect of Interest Rate Models on the Future Annuity Prices*”, 18th International Congress on Insurance: Mathematics and Economics, Shanghai, China, 10 -12 July 2014, (International, Proceeding)

- Acar Şentürk, A., **Karabey, U.**, “*Modeling claim severity in motor insurance: copula approach*”, 9th International Statistic Days Symposium, Antalya, TÜRKİYE, 10-14 May 2014, (International, Proceeding)
- **Karabey, U.**, Şahin, Ş., Arık, A. “*Selecting the Best Pricing Model to Conform to a Country’s Available Data*”, 30th International Congress of Actuaries, Washington, D.C., USA, 30 March-4 April 2014, (International, Proceeding)
- **Karabey, U.**, “*Risk Capital Allocation: Importance of Copula Selection*”, 8th International Statistics Congress, Antalya, TÜRKİYE, 27-30 October 2013, (International, Proceeding)
- Acar Şentürk, A., **Karabey, U.**, “*Risk Measurement in Traffic Insurance*”, 8th International Statistics Congress, Antalya, TÜRKİYE, 27-30 October 2013, (National, Proceeding)
- **Karabey, U.**, Kleinow, T., Cairns, A., “*Measurement of Factor Risks in Annuities*”, 17th International Congress on Insurance: Mathematics and Economics, Copenhagen, 1-3 July 2013 (International, Proceeding)
- Arık, A., Nevruz, E., **Karabey, U.**, “*Risk Measurement and Extreme Value Theory: An Application for Emerging Financial Markets*”, 17th International Congress on Insurance: Mathematics and Economics, Copenhagen, 1-3 July 2013 (International, Proceeding)
- **Karabey, U.**, “*Risk Capital Allocation, Risk Measures and Sensitivity Analysis*”, 1th National Insurance and Actuary Congress, Ankara, TÜRKİYE, 6-7 June 2013 (National, Proceeding)
- Arık, A., Nevruz, E., **Karabey, U.**, “*Extreme Value Theory and Risk Analysis: An Application for Emerging Financial Markets*”, 1th National Insurance and Actuary Congress, Ankara, TÜRKİYE, 6-7 June 2013 (National, Poster)
- Özkök, E., Ata, N., **Karabey, U.**, “*The Unemployment structure of Turkey: Survival Models with Non-Proportional Hazards*”, Applied Statistics 2008, Ribno (Bled), Slovenia, 21-24 September 2008 (International, Proceeding)
- **Karabey, U.**, Esensoy, Ö., “*Bayesian Analysis of Road Accidents with Using Binomial Distribution*”, 5th Statistics Congress and Risk Measures and Solvency Meeting, Antalya, TÜRKİYE, 20-24 May 2007 (National, Proceeding)

Seminars&Invited Speaker&Training:

- **Karabey, U.**, “*Non-Life Professionalization Training*”, Actuarial Society of TÜRKİYE, 5 October 2024 (Training)
- **Karabey, U.**, “*Analyzing Mortality Rate Jumps within the IFRS 17 Framework*”, Recent Developments in Actuarial Science Workshop, Institute of Applied Mathematics, Middle East Technical University, Ankara, TÜRKİYE, 25 June 2024 (Invited Speaker)
- **Karabey, U.**, “*Non-Life Professionalization Training*”, Actuarial Society of TÜRKİYE, 1 June 2024 (Training)

- **Karabey, U.**, “*Literacy of Actuary*”, 3rd Disability Expert Conference, Hacettepe University, Ankara, TÜRKİYE, 10 December 2023 (Training)
- **Karabey, U.**, “*Non-Life Professionalization Training*”, Actuarial Society of TÜRKİYE, 4 March 2023 (Training)
- **Karabey, U.**, “*Non-Life Professionalization Training*”, Actuarial Society of TÜRKİYE, 8 January 2022 (Training)
- **Karabey, U.**, “*Literacy of Actuary*”, 2nd Disability Expert Conference, Hacettepe University, Ankara, TÜRKİYE, 5 November 2019 (Training)
- **Karabey, U.**, “*Literacy of Actuary*”, Disability Expert Conference, Hacettepe University, Ankara, TÜRKİYE, 8 March 2018 (Training)
- **Karabey, U.**, Kleinow, T., Cairns, A., “*Risk Capital Allocation for Linear & Non-linear Loss Models*”, Institute of Applied Mathematics, Middle East Technical University, Ankara, TÜRKİYE, 14 May 2013 (Invited Speaker)
- **Karabey, U.**, Kleinow, T., Cairns, A., “*Risk Capital Allocation for Linear & Non-linear Loss Models*”, Seminars of Department of Actuarial Sciences, Hacettepe University, Ankara, TÜRKİYE, 5 April 2013 (Seminar)
- **Karabey, U.**, Fischer, T., Kleinow, T., “*A Gentle Introduction to Risk Capital Allocation*”, Seminars of Department of Actuarial Sciences, Hacettepe University, Ankara, TÜRKİYE, 16 November 2012 (Seminar)
- **Karabey, U.**, Kleinow, T., Cairns, A., “*Risk Capital Allocation for Linear & Non-linear Loss Models*”, Seminars of School of Mathematical and Computer Sciences, Heriot-Watt University, Edinburgh, UK, 18 May 2012 (Seminar)
- **Karabey, U.**, Fischer, T., Kleinow, T., “*A Gentle Introduction to Risk Capital Allocation*”, Seminars of School of Mathematical and Computer Sciences, Heriot-Watt University, Edinburgh, UK, 4 February 2011 (Seminar)

Fellowships & Honors:

- PhD Scholarship from the Council of Higher Education, TÜRKİYE, September 2008 – June 2012
- Domestic PhD Scholarship - TUBITAK, January 2007 - August 2008
- Graduation from Department of Statistics, Hacettepe University ranked with third rank, January 2004

Postgraduate Thesis (Supervision):

- Lazoğlu, Ç., Hacettepe University, **Ph.D. Thesis (ongoing)**
- Yeldan, M., Hacettepe University, **Ph.D. Thesis (ongoing)**
- Karababa, Ç. E., Hacettepe University, **Ph.D. Thesis (ongoing)**
- Demir, B. B., Hacettepe University, **Ph.D. Thesis (ongoing)**

- Kurtçu, M., Hacettepe University, **MSc. Thesis (ongoing)**
- Yalçın Düzgün, M., Hacettepe University, **MSc. Thesis (ongoing)**
- Batur, G. B., “*Performance Evaluation Of Pension Funds In Turkey, Comparison Of Interest-Free And Interest Bearing Pension Funds*”, Hacettepe University, 2021, **MSc. Thesis**
- Karataş, R., “*Dependence Modelling on Loss Triangles*”, Hacettepe University, 2021, **Ph.D. Thesis**
- Külekçi Yıldırım, B. “*Risk Measurement Using Time Varying Extreme Value Copulas*”, Hacettepe University, 2021, **Ph.D. Thesis**
- İlhan, H., “*The Effect of Smoothing Splines on Pricing of Non-Life Insurance Products*”, Hacettepe University, 2018, **MSc. Thesis**
- Şentürk Acar, A., “*Impact of Heterogeneity On Aggregate Loss Models in Health Insurance*”, Hacettepe University, 2016, **Ph.D. Thesis**

Postgraduate Thesis (jury& thesis monitoring committee (tmc)):

- Akarsu, G., “*Stochastic reserve estimation and risk adjustments under IFRS 17*”, Middle East Technical University, **Ph.D. Thesis (jury)**
- Gülveren, A., “*Optimal reinsurance and investment strategy under Ornstein uhlenbeck process*”, Middle East Technical University, **Ph.D. Thesis (tmc)**
- Aydoğan Kılıç, D., “*Hidden Markov Models in Finance and Insurance: Multivariate Case*”, Middle East Technical University, **Ph.D. Thesis (tmc)**
- Hasgül, E., “*A Hybrid Approach in Constructing an Internal Solvency Model*”, Middle East Technical University, **Ph.D. Thesis (tmc)**
- Oflaz, Z., “*Ischemic heart disease mortality rates estimation using latent markov model with individual covariates in latent process*”, Middle East Technical University, **Ph.D. Thesis (tmc)**
- Özalp, A., “*Alternative approach to claims models: a comprehensive solution for heterogeneity and serial correlation*”, Hacettepe University, **Ph.D. Thesis (jury)**
- Demirezen, S., “*Prediction And Forecasting Of Electricity Prices For Turkish Day Ahead Market*”, Hacettepe University, **MSc. Thesis (jury)**
- Kara, M., “*Reliability, Maintainability And Availability In Redundant Interface Card Systems*”, Hacettepe University, **MSc. Thesis (jury)**

Languages:

- Turkish: mother tongue
- English: Good, YDS: 91.25/100
- German: TÖMER- Beginner Certificate

Computer Skills:

Java, Visual Basic, C++, R, SPSS, STATA, SAS, MATLAB, Database Management, Data Structures (SQL)

Memberships:

- Turkish Statistics Society
- Actuary Society
- Actuarial Society of TÜRKİYE

Lectures:

- Hacettepe University, Ankara, TÜRKİYE
 - AKT 201 – Mathematical Statistics I (BSc), 2013-2015
 - AKT 202 – Mathematical Statistics II (BSc), 2013-2015
 - AKT 210 – Life Insurance Mathematics (BSc), 2023-Ongoing
 - AKT 385 – Actuary (BSc), 2017 – 2022, 2024-Ongoing
 - AKT 401 – Actuarial Applications (BSc), 2013-Ongoing
 - AKT 403 – Risk Theory (BSc), 2013- Ongoing
 - AKT 413 – Financial Risk Management (BSc), 2013 - 2014
 - AKT 476 – Risk Management and Insurance (BSc), 2013 – 2020, 2023-Ongoing
 - AKT 603 – Actuarial Risk Theory (MSc), 2014-Ongoing
 - AKT 609 – Life Insurance Mathematics I (BSc), 2022 - 2023
 - AKT 708 – Portfolio Theory (PhD), 2013-Ongoing

Assisted Lectures:

- Heriot-Watt University, Edinburgh, UK
 - F71AF - Life Insurance Mathematics I (MSc), 2008-2011
 - F71AG - Risk Theory (MSc), 2008-2010
- Hacettepe University, Ankara, TÜRKİYE
 - AKT 105 - Computer Programming (BSc), 2006-2008
 - AKT 108 - Probability and Statistics II (BSc), 2006-2008
 - AKT 307 - Life Insurance (BSc), 2006-2008
 - AKT 312 - Actuarial Mathematics II (BSc), 2006-2008
 - AKT 410 - Pension Mathematics (BSc), 2006-2008
 - AKT 615 - Pension Mathematics (MSc), 2006-2008

Other Responsibilities:

- Coordinator of Academic Supervisory, 2013 – Ongoing
- Academic Advisor of Student Communities, 2013 – Ongoing
- Coordinator of Advertisement of The Department, 2013 – 2020
- Coordinator of Bologna Process, 2012 – Ongoing

- IT Coordinator of The Department, 2007 – 2008, 2013 – 2023
- Webmaster of The Department's Website, 2007 – 2008, 2013 – 2023
- Course and Exam Schedule Coordinator, 2007 – 2008
- Academic Advisor of 30 Undergraduate Students, 2007 – 2008, 2012 - 2023

Field of Interests:

- Financial Risk Management
- Solvency and Capital Requirements
- Risk Capital Allocation
- Computer Programming Languages and Software Applications
- Data Structures and Database Management
- Compensation for Loss of Support and Earnings (Death/Disability)
- Statistical Analysis

Projects:

- EXIM Bank: Function of Actuary, HTTM-Hacettepe Uni., 2022-2023
- Compulsory Financial Liability Insurance, Regulation of General Conditions, Official Gazette Date 20.03.2020 (Compensation of Loss of Support and Earnings), Insurance Association of TÜRKİYE, 2018-2019
- Analysis of Efficiency on Agricultural Insurance System, TARSIM, 2015-2016
- Financing of Education and Education Expenditure Information System in TÜRKİYE, TUBITAK 1007, Government Project, 2007-2008
- Data Base and interface construction for Tarım Kredi Foundation, 2007
- Actuarial Analysis and Projection for Tekel Foundation, 2007
- Actuarial Projection for Tarım Kredi Foundation, 2007
- Data Base and Interface construction for an automobile company, 2004