

# ANA MIGUEL FONSECA PEGO

Assistant Professor of Forensic Toxicology

524 W 59<sup>th</sup> St, New York, NY 10019 – United States of America

Email(s): [anamiguel14@hotmail.com](mailto:anamiguel14@hotmail.com) & [apecto@jjay.cuny.edu](mailto:apecto@jjay.cuny.edu)

LinkedIn: [www.linkedin.com/in/ana-miguel-pegno/](http://www.linkedin.com/in/ana-miguel-pegno/)

## ACADEMIC CAREER

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*Aug 2014 – Aug 2018*

### UNIVERSITY OF SÃO PAULO

PhD in Physiopathology and Toxicology

Thesis title: Investigation on the relationship between violent death, cocaine abuse and single nucleotide polymorphisms

Supervisor: Mauricio Yonamine

Scholarship: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES)

Location: São Paulo, Brazil

*Sep 2017 – Nov 2017*

### UNIVERSITY OF CALIFORNIA

Visiting PhD Scholar - international exchange at the SEMEL Institute for Neuroscience and Human Behavior

Supervisor: Edythe London

Scholarship: Santander Mobility

Location: Los Angeles, USA

*Sep 2012 – Sep 2013*

### THE UNIVERSITY OF GLASGOW

Master's in Forensic Toxicology (graduated with merit)

Dissertation title: Evaluation of liquid phase microextraction techniques in forensic toxicology

Supervisor: Robert Anderson

Location: Glasgow, Scotland

*Aug 2010 – Dec 2010*

### TAMPERE UNIVERSITY OF APPLIED SCIENCES

ERASMUS exchange program in Laboratory Analysis

Supervisor: Marja-Liisa Laaksonen

Scholarship: Erasmus Program

Location: Tampere, Finland

## ACADEMIC CAREER (continued)

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*Sep 2008 – Aug 2012*

**GLASGOW CALEDONIAN UNIVERSITY**

Graduation in Forensic Investigation (first-class honors)  
Dissertation title: Evaluation of the antimicrobial effects of colloidal silver  
Supervisor: John Smylie  
Scholarship: Student Awards Agency for Scotland (SAAS)  
Location: Glasgow, Scotland

## PROFESSIONAL CAREER

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*Jan 2022 – Present*

**JOHN JAY COLLEGE OF CRIMINAL JUSTICE**

Title: Assistant Professor (tenure-track)  
Location: New York, USA

*Sep 2020 – Dec 2021*

**DUTCH SCREENING GROUP**

Title: Head of Development  
Location: Maastricht, Netherlands

*Nov 2019 – May 2020*  
INSTITUTE

**MAASTRICHT MULTIMODAL MOLECULAR IMAGING (M4I)**

Title: Visiting Researcher  
Location: Maastricht, Netherlands

*Jul 2018 – Jul 2019*

**AVANS UNIVERSITY OF APPLIED SCIENCES**

Title: Post-doc researcher  
Location: Breda, Netherlands

*May 2014 – Aug 2014*

**CHARLES RIVER LABORATORIES**

Title: Scientist I  
Location: Edinburgh, Scotland

*Mar 2014 – May 2014*

**SCIENTIFIC ANALYSIS LABORATORIES LTD**

Title: Scientist I  
Location: East Kilbride, Scotland

## SCIENTIFIC ARTICLES PUBLISHED

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1. R.R. Viana, **A.M.F. Pego**, T.F. Oliveira, E. Dallegrave, S. Eller. Liquid chromatography-tandem mass spectrometry method for simultaneous quantification of neurotransmitters in rat brain tissue exposed to 4'-Fluoro- $\alpha$ -PHP. *Biomedical Chromatography*. doi: 10.1002/bmc.5487.
2. P.R.Tomaz, T.S. Gonçalves, J.R. Santos, J. Scholz, T.O. Abe, P.A. Gaya, E. Figueiredo, H.H. Faria, I. Martins, **A.M.F. Pego**, B.A. Paranhos, M. Yonamine, A. Pereira, P.C.J.L. Santos. Evaluation of the nicotine metabolite ratio in smoking patients treated with varenicline and bupropion. *Frontiers in Pharmacology*. doi: 10.3389/fphar.2022.900112.
3. L. DeFreitas, **A.M.F. Pego**, R. Kronstrand, E. Lendoiro, A. Castro-Ríos, M. Concheiro. Fast and Sensitive Method for the Determination of 17 Designer Benzodiazepines in Hair by Liquid Chromatography Tandem Mass Spectrometry. *Journal of Analytical Toxicology*. doi: 10.1093/jat/bkac044.
4. G.A. Saldanha, A.L.B. Pacheco, **A.M.F. Pego**, A.V. Bairros. Analysis of benzodiazepines in plasma samples by DLLME and LC-DAD: critical aspects, flaws and issues encountered – a discussion. *Quimica Nova*, Vol. XY, No. 00, 1-8. doi: 10.21577/0100-4042.20170928.
5. F.L. Roveri\*, **A.M.F. Pego**\*, S. Eller, T. Franco de Oliveira, M. Yonamine (2022) Evaluation of artificial drug incorporation into hair for production of quality control samples. *Drug Analytical Research*, 5:2. doi: 10.22456/2527-2616.118887
6. G.O. Silveira, F. R. Lourenço, A. Bezerra, **A.M.F. Pego**, R.G. Santos, G.N. Rossi, J.E.C. Hallak, M. Yonamine (2021) Essential oil-based dispersive liquid-liquid microextraction for the determination of N,N-dimethyltryptamine and  $\beta$ -carbolines in human plasma: A novel solvent-free alternative. *Talanta*, 225. doi: 10.1016/j.talanta.2020.121976
7. B.P. Santos, G.C. Gouveia, S. Eller, **A.M.F. Pego**, V.C. Sebben, T. Franco de Oliveira. (2020) Is COVID-19 the current world-wide pandemic having effects on the profile of psychoactive substance poisonings? *Forensic Toxicology*, 39: 282-285. doi: 10.1007/s11419-020-00558-3
8. **A.M.F. Pego**, V.Leyton, I.D.Miziara, R. H. Bortolin, R.C.C. Freitas, M. Hirata, P.R.X. Tomaz, J.R. Santos, P.C.J.L. Santos, M.Yonamine. (2020) SNPs from BCHE and DRD3 genes associated to cocaine abuse amongst violent individuals from Sao Paulo, Brazil. *Forensic Science International*, 317. doi: 10.1016/j.forsciint.2020.110511 (\*Both authors contributed equally to this work)
9. A.V. Bairros, D. Dias, A. Bezerra, R. Wagner, B. Klein, G. Kommers, E. Stefanon, **A.M.F. Pego**. (2019) An analytical strategy for the identification of carbamates, toxic alkaloids, phenobarbital, and warfarin in stomach contents from suspected poisoned animals by thin-layer chromatography/ultraviolet detection. *Toxicology Mechanisms and Methods*, 29(7):518-530. doi: 10.1080/15376516.2019.1619213
10. G.O. Silveira, **A.M.F. Pego**, J. P. Silva, M.Yonamine. (2019) Green sample preparations for the bioanalysis of drugs of abuse in complex matrices. *Bioanalysis*, 11(4). doi: 10.4155/bio-2018-0208
11. **A.M.F. Pego**, S.C.W.S.E. Franco de Oliveira, T. Franco de Oliveira, V.Leyton, I.D.Miziara, M.Yonamine. (2018) Cocaine toxicological findings in cases of violent death in Sao Paulo city - Brazil. *Forensic and Legal Medicine*, 60:3-8. doi: 10.1016/j.flm.2018.08.005

## SCIENTIFIC ARTICLES PUBLISHED (continued)

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12. **A.M.F. Pego**, F.L.Roveri, R.Y.Kuninari, V.Leyton, I.D.Miziara, M.Yonamine. (2016) Determination of cocaine and its derivatives in hair samples by liquid phase microextraction (LPME) and gas chromatography–mass spectrometry (GC–MS). *Forensic Science International*, 274:83-90. doi: 10.1016/j.forsciint.2016.12.024

## BOOK CHAPTERS

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1. **A.M.F. Pego** (2023). Cocaine, Genes, and Violent Behaviors. In: Martin, C., Preedy, V.R., Patel, V.B. (eds) *Handbook of Anger, Aggression, and Violence*. Springer, Cham. doi: 10.1007/978-3-030-98711-4\_87-1

2. C. Mantovani, **A.M.F. Pego**, M. Yonamine (2014). Cocaína. In: Dinis-Oliveira, R.J., Bastos, M.L., Carvalho, F.D. (eds) *Toxicologia Forense*. Pactor. ISBN: 9789896930455

3. A.V. Bairros, **A.M.F. Pego**, M. Yonamine (2014). Etanol. In: Dinis-Oliveira, R.J., Bastos, M.L., Carvalho, F.D. (eds) *Toxicologia Forense*. Pactor. ISBN: 9789896930455

## REVIEWER IN PEER-REVIEWED JOURNALS

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1. Bioscience reports
2. Frontiers in Pharmacology
3. Frontiers in Chemistry
4. Forensic Chemistry
5. Emerging Trends in Drugs, Addictions and Health
6. Journal of Pharmacy and Pharmacology
7. Forensic Sciences Research
8. Journal of Pharmaceutical and Biomedical Sciences
9. Journal of Forensic Sciences
10. Forensic Science International

## WORK PRESENTED AT CONFERENCE MEETINGS

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1. 'Fast and Sensitive Method for the Determination of 17 Designer Benzodiazepines in Hair by Liquid Chromatography–Tandem Mass Spectrometry' at the 59<sup>th</sup> Annual Meeting of The International Association of Forensic Toxicologists (TIAFT), 2022 – Versailles, France – Oral presentation (co-author)
2. 'Liquid chromatography–tandem mass spectrometry method for simultaneous quantification of neurotransmitters in rat brain tissue' at the XXII Brazilian Congress of Toxicology (CBTOX), 2022 - Balneário Camboriú, Brazil – Poster presentation (co-author)
3. 'Multi-matrix imaging of cholesterol' at American Society for Mass Spectrometry (ASMS), 2021 - online – Poster presentation (last author)
4. 'Monitoring the distribution of lipids in relation to hair anatomy by MALDI-MS imaging' at OURCON – The International Mass Spectrometry Imaging Conference, 2021 - online – Poster presentation (co-author)
5. 'Monitoring the distribution of DoA in longitudinal sectioned hair samples by MALDI-MS imaging' at III Iberian Symposium of Toxicology, 2021- online – Oral & poster presentation (co-author)
6. 'The SherLOK Project: forensic profiling of suspects through hair analysis of life-style markers' at XXI Brazilian Congress of Toxicology & XV TIAFT Latin-American Regional Meeting, 2019 - Águas de Lindóia, Brazil – Oral & poster presentation (first and presenting author)
7. 'Investigation on the relationship between violent death, cocaine abuse and single nucleotide polymorphisms' at XXI Brazilian Congress of Toxicology & XV TIAFT Latin-American Regional Meeting, 2019 - Águas de Lindóia, Brazil – Oral presentation (first and presenting author)
8. 'SherLOK: Using life-style markers for perpetrator profiling through untargeted screening of hair' at 57<sup>th</sup> Annual Meeting of The International Association of Forensic Toxicologists (TIAFT), 2019- Birmingham, UK– Poster presentation (first and presenting author)
9. 'Stability of cocaine, benzoylecgonine, cocaethylene and norcocaine in real case *postmortem* blood samples using dried blood spots technique' at 56<sup>th</sup> Annual Meeting of The International Association of Forensic Toxicologists (TIAFT), 2018 - Ghent, Belgium – Poster presentation (first and presenting author)
10. 'A comparison between *postmortem* blood and hair samples from victims of violent death in Brazil' at 55<sup>th</sup> Annual Meeting of the International Association of Forensic Toxicologists (TIAFT), 2018 - Boca Raton, Florida, USA – Oral presentation (first and presenting author)
11. 'Cocaine toxicological findings in cases of violent death in Sao Paulo city - Brazil' at VII Post-graduate symposium in clinical analysis (SIMPAC) and III International symposium on pathophysiology and toxicology (ISPAT), 2018 - São Paulo, Brazil – Poster presentation (first and presenting author)
12. 'Determination of cocaine and cocaethylene in *postmortem* blood samples using QuEChERS and GC-MS' at 1<sup>st</sup> interFORENSICS, 2017 - Brasilia, Brazil – Poster presentation (first and presenting author)

## WORK PRESENTED AT CONFERENCE MEETINGS (continued)

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13. 'Determination of cocaine, benzoylecgonine, cocaethylene and anhydroecgonine methyl ester in hair samples using liquid phase microextraction (LPME) and gas chromatography-mass spectrometry (GC-MS)' at 54<sup>th</sup> Annual Meeting of the International Association of Forensic Toxicologists (TIAFT), 2016 - Brisbane, Australia – Oral presentation (first and presenting author)

14. 'Optimization of LPME technique for whole blood in forensic toxicology' at 9<sup>th</sup> Congress of Toxicology in Developing Countries/XIX Brazilian Congress of Toxicology, 2015 - Natal, Brazil – Poster presentation (first and presenting author)

15. 'Quantification of cocaine, cocaethylene and anhydroecgonine methyl ester (AEME) in whole blood using hollow-fibre liquid phase microextraction (HF- LPME) and gas-chromatography mass-spectrometry (GC-MS)' at 53<sup>rd</sup> Annual Meeting of the International Association of Forensic Toxicologists (TIAFT), 2015 - Florence, Italy – Poster presentation (co-author and presenting author)

16. 'Evaluation of hollow-fibre microextraction in forensic toxicology' at UK & Ireland Association of Forensic Toxicologists (UKIAFT), 2013 - Dublin, Ireland – Poster presentation (first and presenting author)

## INVITED LECTURES

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1. 'Forensic toxicology: what is it and why is it the coolest science ever?' – Virginia Commonwealth University (VCU) Forensic Science Seminar Series, January 2023 – online

2. 'How to identify a suspect through hair? SPOILER ALERT: not DNA!' - Graduate Symposium in Health Sciences, November 2022 – online

3. 'What now? Education & Career Paths in Analytical Toxicology' - II Toxicology Journeys (JOTOX - UNICAMP), November 2022 – online

4. 'The toxicological presence in medicine: fiction or reality?' - IV Congress of Students and Health Professionals (COEPS), October 2022 – online

5. 'Uncomplicating toxicology' - Liga Acadêmica de Toxicologia Universidade do Vale do Itajaí (LATOX – UNIVALI), August 2022 – online

6. 'Forensic Toxicology in the 21st century' - IV Symposium of Toxicological Analysis Applied to Forensic Sciences (SINTOX), June 2022 – online

7. 'What now? Education & Career Paths in Analytical Toxicology' - XXII Brazilian Congress of Toxicology (CBTOX), May 2022 – Balneário Camboriú, Brazil

8. 'Science overdose: a journey through forensic toxicology' - PRISM program at the John Jay College of Criminal Justice, April 2022 – online

## INVITED LECTURES (continued)

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9. 'Forensic Toxicology – the real-life C.S.I.' - III I Symposium of Toxicological Analysis applied to Forensic Sciences (SINTOX), June 2021 – online
10. 'Forensic and *Postmortem* Toxicology – from death to the laboratory' - Simulation on forensic investigation (SIPEF), May 2021 – online
11. 'Careers in Toxicology' - Committee of Young Toxicologists (CJTOX), Society of Brazilian Toxicology (SBTOX), May 2021 – online
12. 'Forensic Toxicology' – S.V. Talpa Den Bosch, May (2021) - online
13. 'It's a hairy business: Uncovering the mysteries of hair analysis' - Forensic Analysis of Drugs and Poisons subject at Anglia Ruskin University, March (2021) – online
14. 'Forensic toxicology: from death to the laboratory – the real-life C.S.I.' - VII International Meeting of Biosciences and Physiopathology, October (2020) – online
15. 'SherLOK: profiling of individuals through forensic analysis and imaging of hair' - London Toxicology Group (LTG), September (2020) – online
16. 'SherLOK: forensic profiling of suspects through hair analysis of life-style markers' - Royal Netherlands Chemical Society (KNCV) Working Group Separation Science Summer Meeting, October 2019 – Nijmegen, Netherlands
17. 'The SherLOK project' - Forensic PhD Symposium Co van Ledden Hulsebosch Center (CLHC), October 2018 – Amsterdam, Netherlands
18. 'Challenges of Forensic Toxicology and how to overcome them' - II ToxiLatin, June 2018 – Porto Alegre, Brazil
19. 'From death to the laboratory through Forensic Toxicology' - II Symposium of Toxicological Analysis applied to Forensic Sciences (SINTOX), May 2018 - Teresina, Brazil
20. 'Forensic Toxicology: the hidden truth' - XV Biomedicine Conference, May 2018 - Uberaba, Brazil
21. 'Forensic Toxicology' - VI Winter School in Toxicology, July 2017 - São Paulo, Brazil
22. 'Forensic Toxicology - The real-life C.S.I.' - I Symposium of the Academic League of Forensic Sciences, June 2017 - Uberaba, Brazil
23. 'Toxicogenetics' - Part of the graduate subject *Forensic Toxicology* under the Faculty of Pharmaceutical Sciences, at the University of São Paulo, June 2017 - São Paulo, Brazil
24. 'Forensic Toxicology - The hidden reality' - I Symposium of Toxicological Analysis applied to Forensic Sciences (SINTOX), May 2017 - Teresina, Brazil

## INVITED LECTURES (continued)

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25. 'Forensic Toxicology - The C.S.I of real life' - VI National Symposium of DNA and Forensic Laboratories, December 2016 - Curitiba, Brazil
26. 'Postmortem Toxicology' - I Cycle of courses and lectures from the Brazilian Society of Toxicology (SBTOX), June 2016 - São Paulo, Brazil
27. 'Screening and immunoassay techniques for the detection of stimulants in urine' - Part of the subject *Toxicological Analysis* under the undergraduate course in Pharmacy from the Federal University of São Paulo (Theoretical & practical), March 2016 and March 2017 - São Paulo, Brazil
28. 'Cannabinoids' - I Extension Course in Forensic Toxicology, October 2015 - São Paulo, Brazil
29. 'Truths and myths about THC' - IV Symposium on Biomedicine, September 2015 - Limeira, Brazil
30. 'Forensic Toxicology' - IV Winter School in Toxicology, June 2015 - São Paulo, Brazil

## INTERVIEWS

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1. Podcast: 'The real-life C.S.I., an interdisciplinary dialogue with the forensic area' – Psicopauta (22<sup>nd</sup> episode) – online
2. Interview: 'What do you think should be the outcome of drug education?' – Elizabeth Rooney (for ANT 110: Drug use and abuse) – New York, United States
3. YouTube channel 'Murilis': 'Cocaine: is it addictive?' (<https://www.youtube.com/watch?v=lqq2NVxILpA>) – São Paulo, Brazil
4. YouTube channel 'Murilis': 'Cannabis: is it addictive?' ([https://www.youtube.com/watch?v=kVhX\\_Qm3rUY&t=235s](https://www.youtube.com/watch?v=kVhX_Qm3rUY&t=235s)) – São Paulo, Brazil

## ACADEMIC RESPONSIBILITIES

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1. Elected member of Faculty Senate at John Jay College of Criminal Justice (2022 – Present)
2. Elected member of College Council at John Jay College of Criminal Justice (2022 – Present)
3. Elected member of Undergraduate Curriculum Committee at John Jay College of Criminal Justice (2022 – Present)
4. President for the Graduate Commission Program Coordination and Scholarship to represent the students within the Program in Toxicology and Toxicological Analysis (2016 – 2017) – first ever foreigner to be elected



## EXAMINER ROLES

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1. Member of the examiner committee of the Master's dissertation middle-term exam of the student Gabriela de Paula Meirelles in the program Pathophysiology and Toxicology with research entitled 'Development of an analytical method based on Green Analytical Toxicology using human umbilical cord tissue to assess maternal-fetal exposure to cocaine' at the University of São Paulo, December 2022
2. Member of the examiner committee of the Master's defense of the student Elizabeth Yulianto in the Forensic Science Program with the dissertation entitled 'Quantification of Phosphatidylethanol in Whole Blood and Dried Blood Spots by LC-MS/MS' at John Jay College of Criminal Justice, December 2022
3. Member of the examiner committee of the PhD thesis middle-term exam of the student André Fabris in the program Pathophysiology and Toxicology with research entitled 'Development of chromatographic methods based on analytical green chemistry for determining new psychoactive substances and application in cases related to forensic toxicology' at the University of São Paulo, June 2022
4. Member of the examiner committee of the Master's defense of the student Rebecca Mitrani in the Forensic Science Program with the dissertation entitled 'Effects of External Decontamination of Methamphetamine in Juvenile Hair' at John Jay College of Criminal Justice, May 2022
8. Poster examiner of the XXI Brazilian Congress of Toxicology & XV TIAFT Latin-American Regional Meeting, October 2019
9. Guest examiner for the final literature thesis of students undertaking the master's program in Forensic Science at the University of Amsterdam, December 2018 – present
10. Examiner for the title of Graduated in Biomedicine of the students Gislaïne Da Silva Moraes & Meire Cristina De Padua with a final work entitled 'Therapeutic Use of Cannabis Sativa' at Integrated College Einstein Limeira, December 2015
11. Poster examiner at the 23<sup>rd</sup> International Symposium on Scientific and Technological Initiation of the University of São Paulo, October 2015
12. Poster examiner at the 22<sup>nd</sup> International Symposium on Scientific and Technological Initiation of the University of São Paulo, October 2014

## COURSES UNDERTAKEN/CERTIFICATES

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1. Certificate of Fitness for Non-Production Chemical Laboratories (C-14) – Fire Department New York City
2. Responsible Conduct of Research (RCR) – CITI Program, online
3. Conflict of Interest mini-course – CITI Program, online
4. HSR for Biomedical Faculty, Graduate Students & Postdoctoral Scholars – CITI Program, online

## COURSES UNDERTAKEN/CERTIFICATES (continued)

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5. 2020 Online Forensic Symposium: Current Trends in Forensic Toxicology (Workload: 15h), 2020 – The Center for Forensic Science Research & Education, online
6. Principles of PBL – a short introduction (Workload: 15h), 2020 – Maastricht University, Maastricht, Netherlands
7. Q Exactive Focus Operations (Workload: 24h), 2019 - Avans Hogeschool, Breda, Netherlands
8. Data analysis using R (Workload: 8h), 2019 - Avans Hogeschool, Breda, Netherlands
9. Metabolomics: understanding metabolism in the 21st century (Workload: 12h), 2019 - University of Birmingham, online
10. PK/PD of Drugs of Abuse (Workload: 32h), 2018 - UNICAMP, São Paulo, Brazil
10. Analysis of Drugs of Abuse in Biological Matrices (Workload: 9h), 2017 - Agilent Technologies, São Paulo, Brazil
11. Pharmacogenetics and Biomarkers in Psychiatry (Workload: 12h), 2015 - Psychiatry Institute of the University of São Paulo, São Paulo, Brazil
12. Design of experiments and multivariate data analysis (Workload: 16h), 2014 - University of São Paulo, São Paulo, Brazil
13. Diploma of Attendance during Forensic Medicine (Workload: 30 weeks) - Department of Forensic Medicine and Science, University of Glasgow, Glasgow, Scotland

## SUPERVISIONS

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### @ John Jay College of Criminal Justice

1. Supervisor of undergraduate student Ashef Ameer with the research entitled 'Development of an LC-MS/MS method for the determination of different PFAs in human hair' (2023 – Present)
2. Supervisor of undergraduate student Alexis Alvarado with the research entitled 'Studying the combination of using cosmetic products together with hair treatments on their potential influence towards the elimination of externally deposited cocaine in hair analysis from in-vitro contaminated hairs' (2023 – Present)
3. Supervisor of undergraduate student Valerie Javellana with the research entitled 'NPS analysis in hair: a review' (2023 – Present)
4. Supervisor of Master's student Justin Allen with the dissertation entitled 'Are fireman at an increased risk of exposure to harmful PFAs? - The role of hair analysis' (2022 – Present)

## SUPERVISIONS (continued)

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5. Supervisor of undergraduate and PRISM student Patricia St Fleur with the research entitled 'The washing of(f) cocaine from hair to prevent false positives' (2022 – Present)
6. Supervisor of Master's student Marialejandra Faure Betancourt with the dissertation entitled 'Cosmetic care products and their influence on the washing of externally cocaine contaminated hairs' (2022 – Present)
7. Supervisor of Master's student Alexandra Dombroski with the dissertation entitled 'Elimination of externally deposited cocaine in different hair types - the role of cosmetic treatments' (2022 – Present)
8. Supervisor of undergraduate student Colleen Murray with the research entitled 'Drug use in prison establishments around the world: what do we know?' (2022)

### @ Dutch Screening Group

1. Company supervisor of the undergraduate student Maaïke Franken from the Amsterdam University of Applied Sciences with the dissertation for the Bachelor of Forensic Sciences, entitled 'MALDI-TOF: the best way to show drug abuse using just a single strand of hair?' (2021)
2. Company supervisor of the Master's student Sara Mandic from Maastricht University with the dissertation entitled 'Brushing off the pain – pain biomarkers in hair' (2020 – 2021)

### @ Avans University of Applied Sciences

1. Co-supervisor of the undergraduate student Lie Nguyen with the research entitled 'SherLOK: Forensic profiling through hair analysis by LC- MS/MS: Expanding an existing method for the analysis of hair with compounds found in foods, medicines, and drugs to aid in the forensic profiling of a person using non-polar LC-MS/MS' (2019 – 2020)
2. Supervisor of the undergraduate student Florence van der Dussen with the research entitled 'GC-MS multi-method for life-style factors' (2019 – 2020)
3. Supervisor of the undergraduate student Anke van de Plas with the research entitled 'Untargeted screening of metabolites in hair using Liquid chromatography coupled to quadrupole orbitrap mass spectrometry' (2019)
4. Co-supervisor of the undergraduate student Audrey Biesmans with the research entitled 'Forensic use of biomarkers in hair' (2018 – 2019)
5. Supervisor of the undergraduate student Rosemarie Bernaards with the research entitled 'SherLOK project: untargeted approach: method development and preliminary results' (2018 – 2019)
6. Co-supervisor of the undergraduate student Emely van Mook with the research entitled 'SherLOK project: identification of compounds in hair with LC-MS/MS that can provide information about the lifestyle of a person to use for forensic investigation' (2018)

## SUPERVISIONS (continued)

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### @ University of Amsterdam

1. Co-supervisor of the Master's student Alissa Janine Sczyslo with the dissertation entitled 'Donor profiling in hair – Life style markers from OTC and prescriptive drugs' (2020)
2. Co-supervisor of the Master's student Anne van Vulpen with the dissertation entitled 'Post-mortem changes in human hair and possible external & environmental effects' (2019)
3. Co-supervisor of the Master's student Yoham Goedhart with the dissertation entitled 'Hair Decay and its Effect on the Detection of Hair Metabolites for the Purpose of Donor Profiling' (2019)
4. Supervisor of the Master's student Romy Constant with the dissertation entitled 'The metabolite profile in hair compared to the metabolite profile in blood and urine of certain pharmaceuticals and conditions' (2018)
5. Supervisor of the Master's student Shirin Alex with the dissertation entitled 'Donor profiling in hair: investigating potential endogenous biomarkers for estimation of age, gender, bmi and stress levels' (2018)

### @ University of São Paulo

1. Supervisor of undergraduate student Rodrigo Yuji Kuninari with the research entitled 'Determination of cocaine, benzoylecgonine, cocaethylene and anhydroecgonine methyl ester in hair through gas chromatography mass spectrometry (GC-MS)' (2015 – 2016)

## EVENT ORGANIZATION/COMITTEES

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5. Abstract reviewer for the 8<sup>th</sup> National Meeting of Forensic Chemistry (ENQFor) and 5<sup>th</sup> Meeting of the Brazilian Society of Forensic Sciences (SBCF), August 2022
  6. Abstract reviewer and Chair of the Forensic session during the Brazilian Symposium of Toxicological Analysis (SIBRAT), October 2021
  7. Jury member of the TIAFT Young Scientists Latin-American committee during the XXI Brazilian Congress of Toxicology & XV TIAFT Latin-American Regional Meeting, October 2019
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1. Member of the Scientific Committee of the XXI Brazilian Congress of Toxicology and XV Latin American Regional TIAFT at Águas de Lindóia – Brazil
  2. Member of the Organizing Committee of the I Extension Course in Forensic Toxicology at the Faculty of Pharmaceutical Sciences, University of São Paulo - Brazil

## AWARDS

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1. Merit award by the University of Glasgow (2013)
2. First Class Honors award by Glasgow Caledonian University (2012)
3. Best high school student award by Agrupamento de Escolas de São João da Pesqueira (2001, 2002 and 2003)

## GRANTS AWARDED

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1. Faculty COVID Recovery Award (2023) - fully paid Faculty Success Program offered by the National Center for Faculty Development and Diversity (NCFDD)
2. Dormitory Authority of the State of New York's Graduate Research Technology Initiative (DASNY GRTI) (2022) - financial grant for laboratory equipment purchases
3. Program for Research Initiatives in Science and Math (PRISM) (2002) - financial grant for laboratory consumables purchases
4. Santander Mobility scholarship - International exchange (2017)
5. The International Association of Forensic Toxicologists (TIAFT) grant - Conference Travel Winner (2016)
6. The International Union of Toxicology (IUTOX) and the Brazilian Society of Toxicology (SBTOX) grant - Fellowship Travel Award Winner (2015)
7. Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES) scholarship - Full financial support during PhD studies (2014 – 2018)
8. ERASMUS scholarship - Studying and living abroad (2010)
9. Student Awards Agency for Scotland (SAAS) scholarship - Fully paid undergraduate studies (2008 - 2012)

## AFFILIATIONS

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1. The International Association of Forensic Toxicologists - TIAFT
2. Society of Forensic Toxicologists – SOFT
3. American Academy of Forensic Sciences – AAFS
4. Portuguese Association of Forensic Sciences - APCF

## AFFILIATIONS (continued)

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5. Brazilian Society of Toxicology – SBTOX
6. Society of Hair Testing – SoHT
7. International society for the study of emerging drugs

## LANGUAGES

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1. Portuguese – Native
2. English – Full proficiency
3. Spanish – Advanced proficiency
4. Dutch – A1 diploma