ALAIN CHARLY TAGNE KUATE, PhD

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SUMMARY

- Full Stack Web Developer, with hands-on experience on applications conception, design, development and deployment.
- Experienced Senior Scientist with profound knowledge in project conception and development. Expertise in managing projects related to the manufacture of quality pure certified references materials (CRMs).
- Organic and organometallic synthesis, ligand design, synthetic methodology and isolation of materials of high purity, catalyst screening, full structural characterization of new materials.
- Handling air sensitive compounds: Glove box, vacuum Schlenk line in inert atmosphere
- Synthetic route innovation, optimization of the reaction conditions, catalytic organic transformation and mechanism investigations

· STRENGTH AND TECHNICAL SKILLS

Project Development	Laboratory Safety	• JavaScript, Express, React, Handlebars,
Laboratory Management	Synthetic Protocol Innovation	• HTML5, CSS3, Bootstrap, JQuery
Organometallic Catalyst Development	• Theoretical Calculation (DFT)	 Express, Node.JS, React, GraphQL, NoSQL
Asymmetric Synthesis	Organic Synthesis	MySQL, MongoDB, Apollo-server

PROJECTS

Sports Bets | https://github.com/greggd1991/SportsBets | https://greggd1991.github.io/SportsBets/

- Sports Bets app is intended to be used for individuals interested in gambling
- **Core responsibilities**: Contribution in writing the code for the html, the styling and the functionalities
- Languages used: HTML, CSS, Javascript

Weather Dashboard | https://github.com/AlCharl88/Weather Dashboard |

https://alcharl88.github.io/Weather Dashboard/

- The application consists of using a weather dashboard in order to consult weather forecasts in any city in the world.
- Core responsabilities: Design, building and deploying the App
- Languages used: HTML, CSS, Javascript

BudgetTracker | https://github.com/AlCharl88/BudgetTracker | https://warm-lake-26156.herokuapp.com/

- The BudgetTracker gives users a fast and easy way to track their money by allowing them to access the information anytime even without any internet connection.
- Core responsabilities: Design, building and deploying the App
- Languages used: Nodejs, npm, Javascript, MongoDB Atlas, Expressjs, Mongoose, Morgan, indexedDB, Bootstrap

Amazing Planner | https://github.com/dmcaulay97/day-planner | https://shrouded-fortress-22363.herokuapp.com/

- The amazing planner is a react App that gives users a way to monitor their daily event
- Core responsabilities: contribution to the design, building and deployment of the App
- Languages used: Nodejs, npm, Javascript, MongoDB Atlas, Expressjs, Mongoose, React, GraphQL, Apollo-server

PROFESSIONAL EXPERIENCE

07/2019 – Now Senior Synthesis Chemist, AccuStandard Inc., New Haven, Connecticut, USA

Key Accomplishments:

- Independent management of multiple projects related to the synthesis of quality pure PCBs, PBDEs, Dioxins, PAHs, PFAs, PCNs, Phthalates, Pesticides, Furans (small to large scale)
- Synthetic methods and analytical results proper documentation through an online file maker.
- Cross collaboration with other departments (QC and Production) relative to the final pure material. Custom formulation and custom synthesis to satisfy customer needs.

08/2014 – 06/2019 Senior Research Scientist, DFG Postdoctoral Fellow, Rutgers University – Newark (Prof. Frieder Jäkle)

Key Accomplishments:

- Conducted research on Lewis pairs in particular systems based on phosphine donor moieties and Lewis acid acceptor (B, Hg) for catalytic organic transformations
- Supported the effective and efficient operations and maintenance of research equipment
- Supported the writing and submission of manuscript resulting from research, which include, but is not limited to, writing, editing, proofreading, discussing, analyzing and seminar presentation.

03/2010 – 07/2014 Research and Development Scientist, Alexander von Humboldt (AvH) Postdoctoral Fellow, Technical University of Braunschweig (Prof. Dr. Matthias Tamm)

Key Accomplishments:

- Developed new efficient palladium catalysts based on troticenyl phosphines for Suzuki-Miyaura and Buchwald-Hartwig cross coupling reactions of sterically hindered aryl halides
- Synthesized and fully characterized siloxane-troticenophanes and studied of their thermal and anionic ring opening polymerization behavior
- Managed the cooperation platform with the companies Sigma Aldrich and Tokyo Chemical Industry (TCI) for the commercialization of the discovered palladium catalyst,

EDUCATION

- 01 09/21: Full Stack Web Developer Certificate, UCONN School of Engineering, CT, USA
- 04/2006 12/2009 : PhD (Organometallic Chemistry), Advisor Prof. Dr. Klaus Jurkschat, Technical University of Dortmund, Germany;
- 10/2002 06/2004 : DIPES II (High School Teacher Certification), University of Yaounde I
- 10/2001 09/2003: MSc. (Inorganic Chemistry), University of Yaoundé I
- 10/1997 09/2001 BSc. (Chemistry), University of Yaoundé

HONORS AND AWARDS

•	08/2014 - 07/2017	Postdoctoral Fellow, German Research Foundation (DFG)
•	02/2011 - 07/2013	Postdoctoral Fellow, Alexander von Humboldt Foundation (AvH
•	04/2006 - 09/2009	Graduate Student Fellow, German Academic Exchange Services
	(DAAD)	

SELECTED PAPERS

- Diferrocenylmercury-Bridged Diphosphine: A Unique Chiral, Ambiphilic, and Redox-active Bidentate Ligand, Alain C. Tagne Kuate, Roger. A. Lalancette, Frieder Jäkle, Angew. Chem. Int. Ed. 2018, 57, 6552-6557.
- Phosphane-Functionalized Cycloheptatrienyl-Cyclopentadienyl Titanium Sandwich Complexes: Phosphorus Ligands with an Integrated Reducing Agent for Pd(0) Catalyst Generation, Alain C. Tagne Kuate, Soheila Sameni, Matthias Freytag, Peter G. Jones and Matthias Tamm, Angew. Chem. 2013, 125, 8800–8804; Angew. Chem. Int. Ed. 2013, 52, 8638–8642

SELECTED TALKS

- Ferrocene-based Planar Chiral Lewis Pair Systems", Pacifichem, **December 15–20, 2015**, Honolulu, Hawai
- Phosphane Ligands with an Integrated Reducing Agent for Pd(0) Catalyst Generation", XIIth Ferrocene Colloquium, February 17–18, 2014, Innsbruck, Austria