

(For JSPS Fellow)

Form B-2  
(FY2018)

Date (日付)

\_\_\_\_\_  
(Date/Month/Year: 日/月/年)

### Activity Report -Science Dialogue Program-

(サイエンス・ダイアログ事業 実施報告書)

- Fellow's name (講師氏名): Benjamin Michel Claude Poignard (ID No. P17728)
- Participating school (学校名): Takamatsu Sakurai High School, Kagawa Prefecture
- Date (実施日時): 01/02/2019 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): Why being a researcher
- Name and title of your accompanying person (講義補助者 職・氏名)  
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- Lecture format (講演形式):
  - ◆Lecture time (講演時間) 70 min (分), Q&A time (質疑応答時間) 15 min (分)
  - ◆Lecture style (ex.: used projector, conducted experiments)  
(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))  
Used a projector and a blackboard
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

The objective was first to provide the reasons of becoming a reasearcher. To do so, two layers of reasons were discussed. On one hand, the surrounding elements of research, idest balance between private/personal life, the abbility to work on one's subject of interest and significant flexibility in terms of work location/time management. On the other hand, I emphasized how research enables to experience self-improvement by learning new things.

Then, after a brief explanation of the research content, real life applications of the research (medicine and financial markets) were provided to students. The application in medicine concerns fMRI, which is an imaging method to devise a brain map of the neural activity. I highlighted the reasons why this method requires statistical methods to fix the high-dimensionality issue. As for the application in financial markets, I first described on what grounds the investment decision is based. Then I provided a short explanation of the Japanese candlestick method and how statistical methods foster suitable predictions.

The second part was dedicated to French History, from the Roman Republic to 1945. As a conclusion, I explained the French higher education system, mainly the difference between

Universities and Grandes Ecoles.

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

It is necessary to use simple English and translate into Japanese some notions. No need to get into details of the research. It is more relevant to provide some real life applications.

- Other noteworthy information (その他特筆すべき事項):

- Impressions and comments from the accompanying person (講義補助者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。)